

Fig. 1

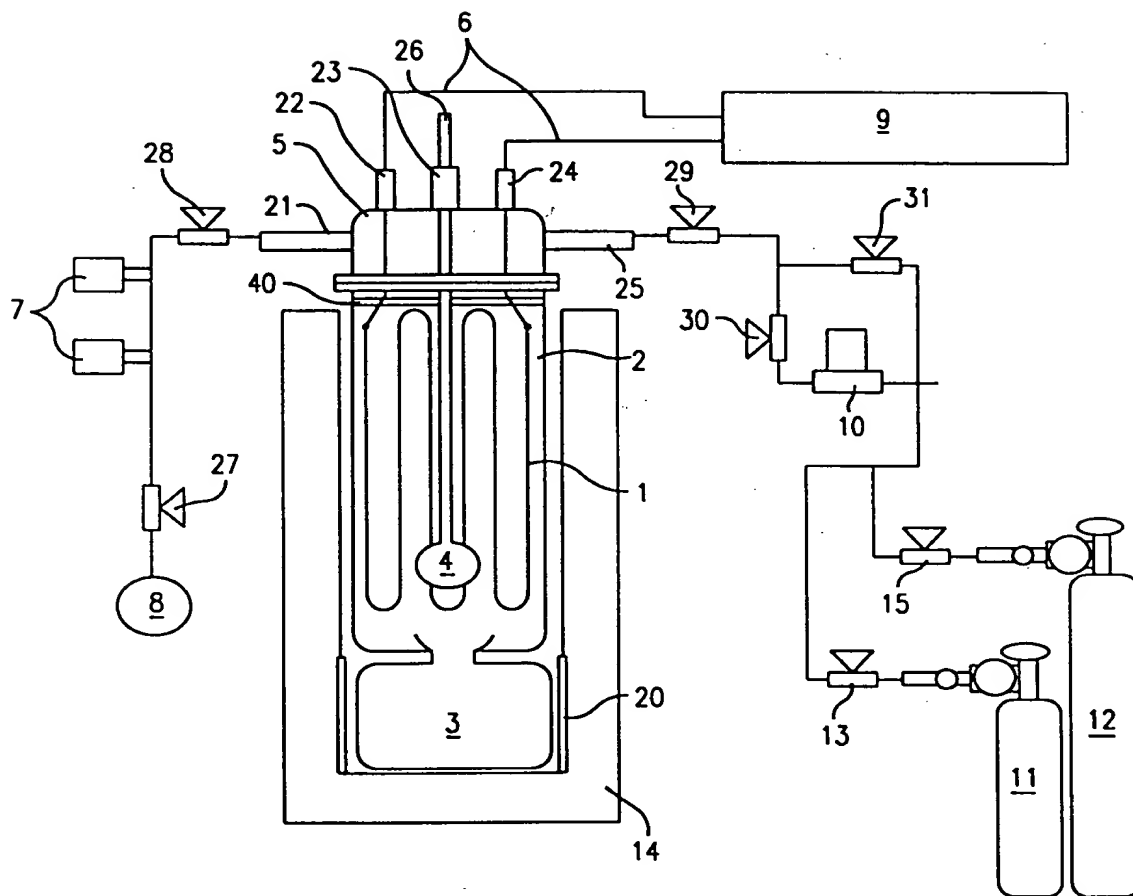


Fig. 2

APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

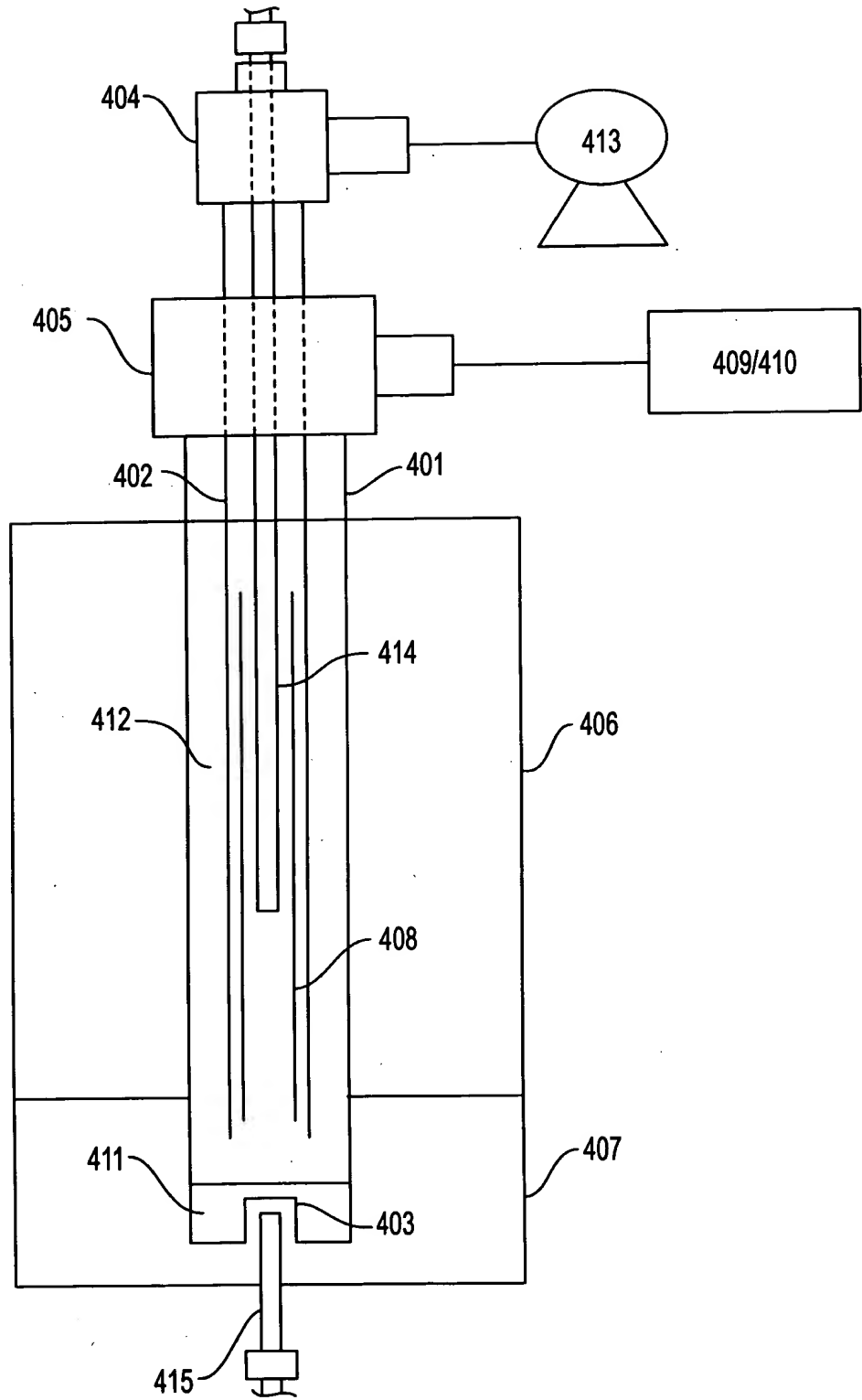


FIG. 3

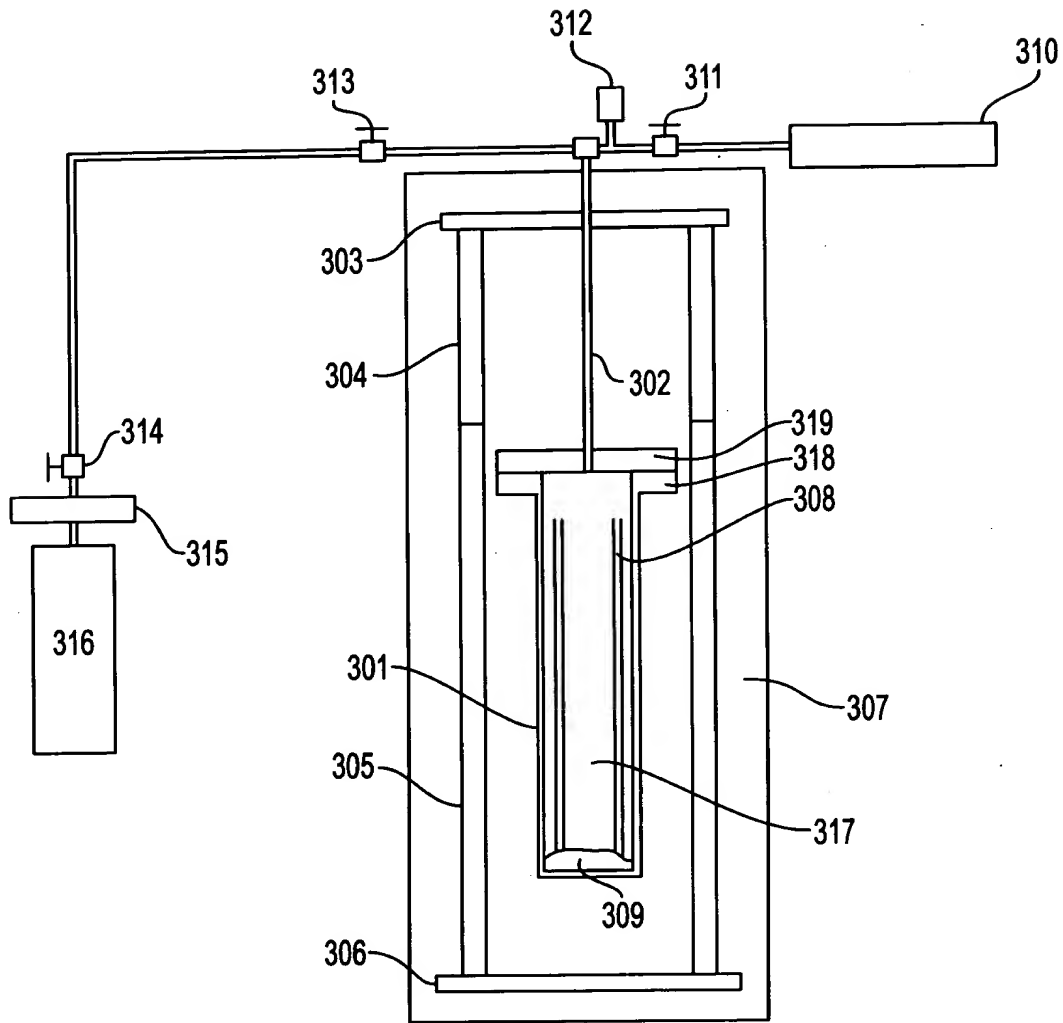


FIG. 4

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 5A

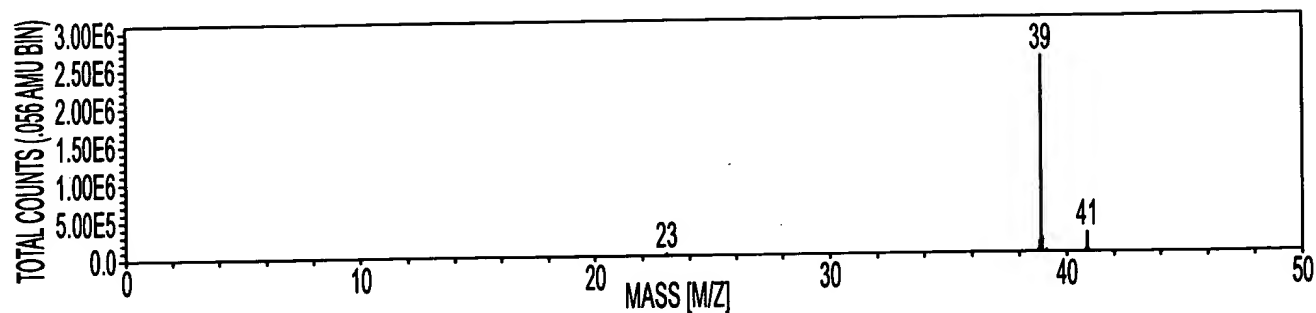


FIG. 5B

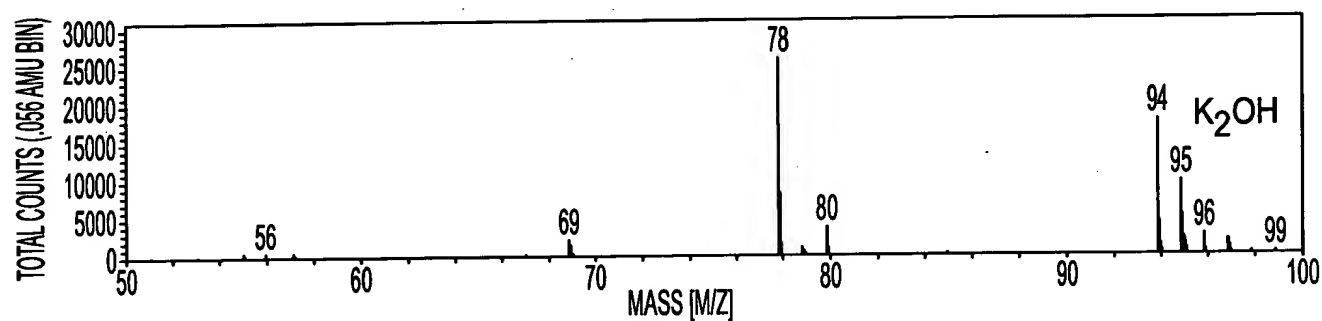


FIG. 5C

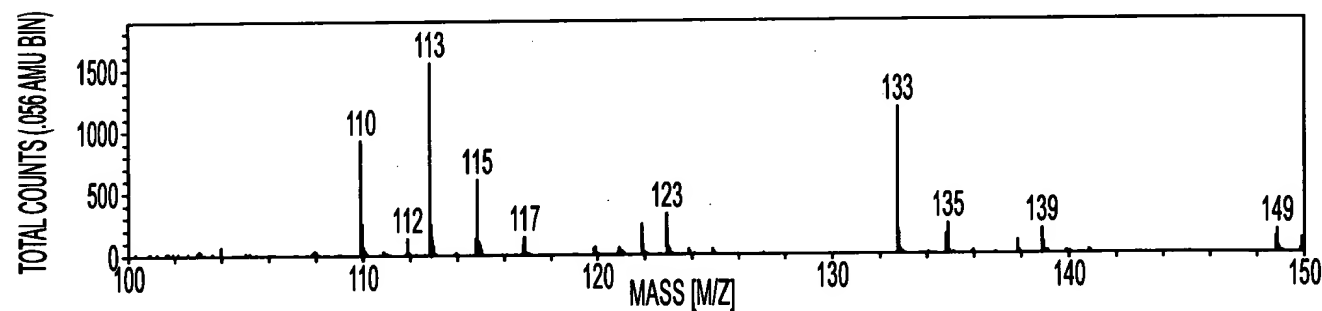


FIG. 5D

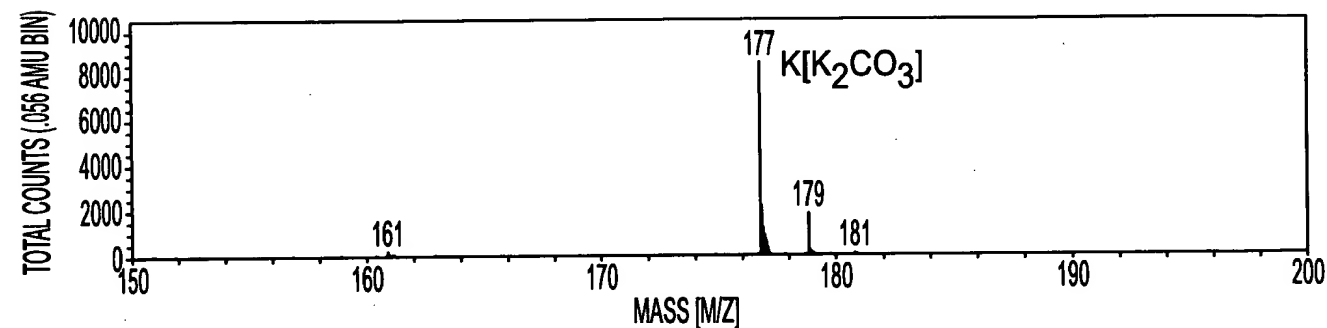


FIG. 6A

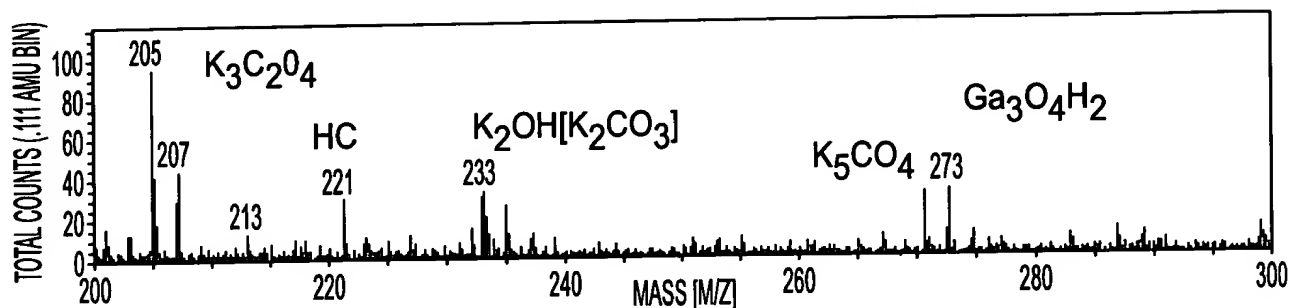


FIG. 6B

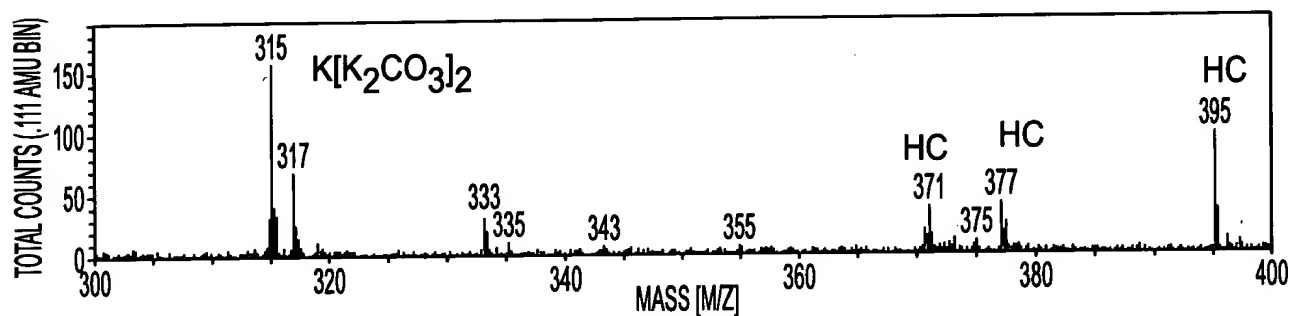


FIG. 6C

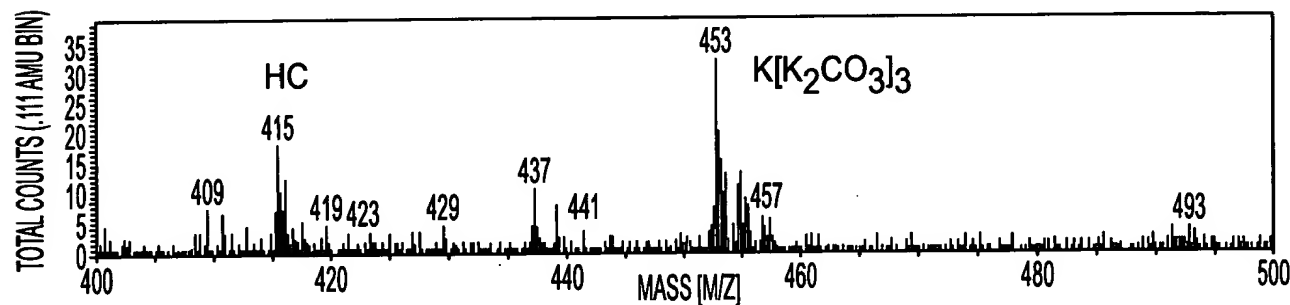
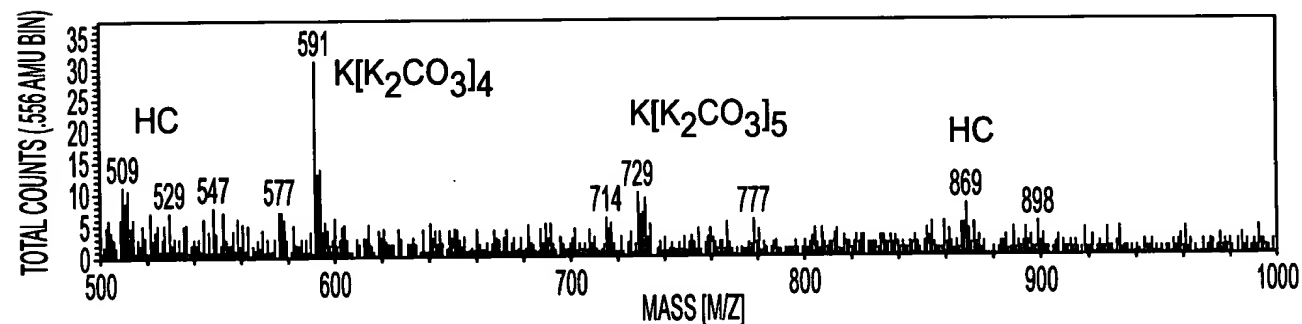


FIG. 6D



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG. 7A

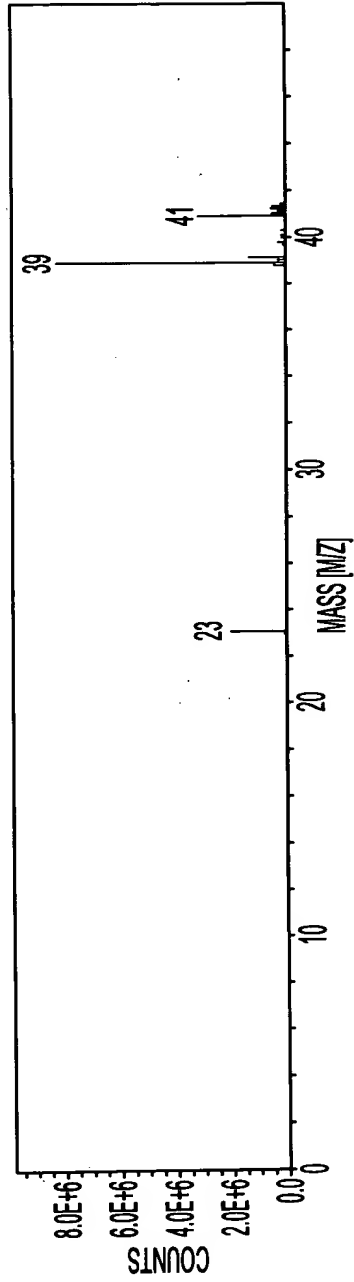
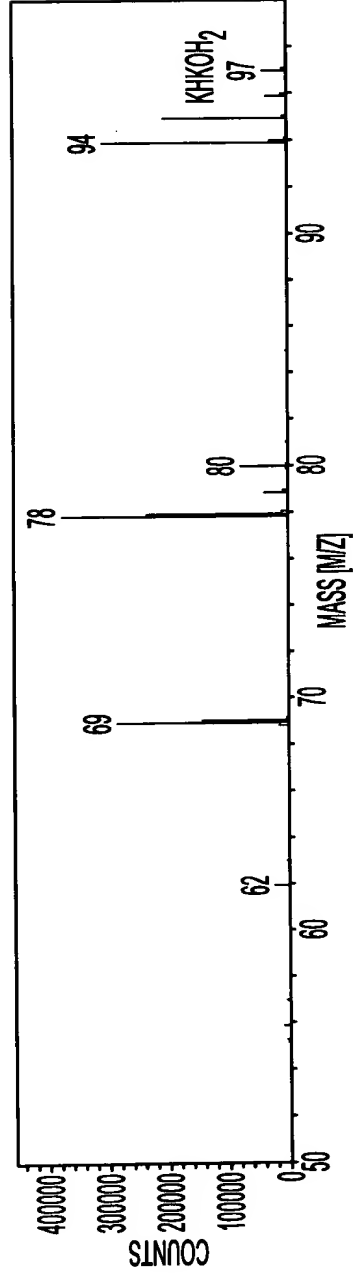


FIG. 7B



APPROVED	C. G. FIG.	
BY	CLASS	SUBCLASS
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FIG. 7C

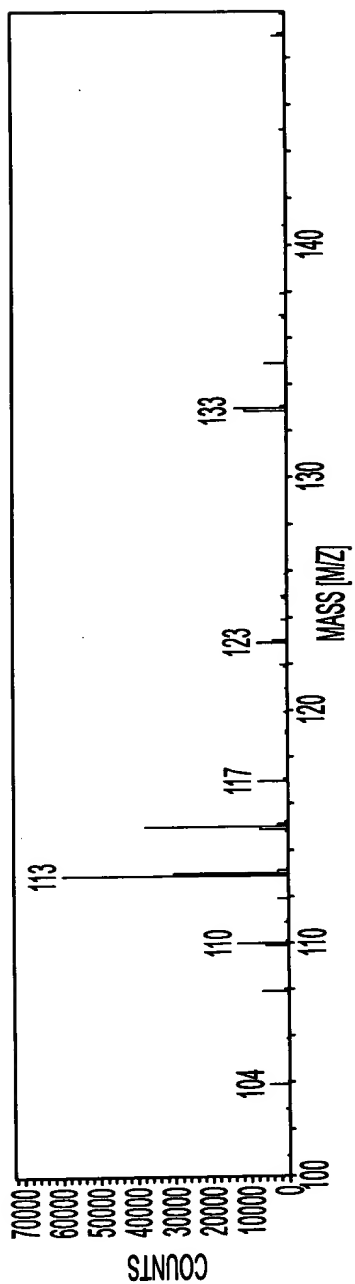
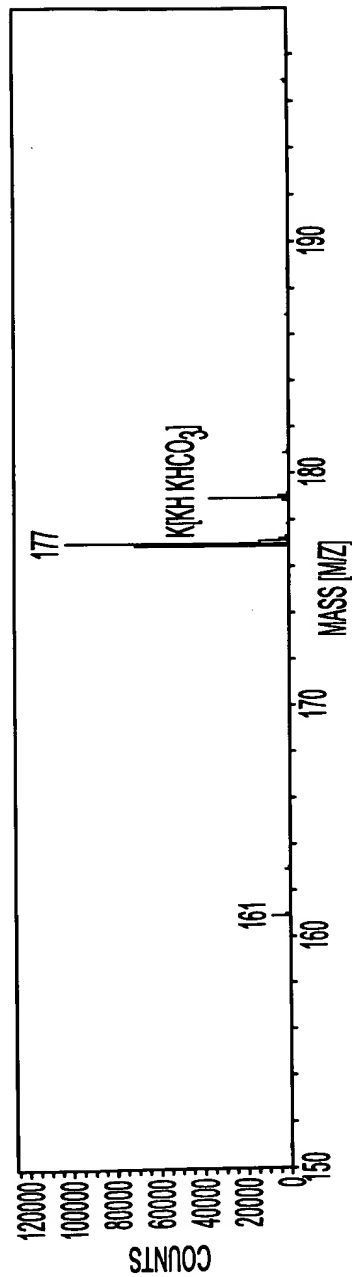


FIG. 7D



APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 8A

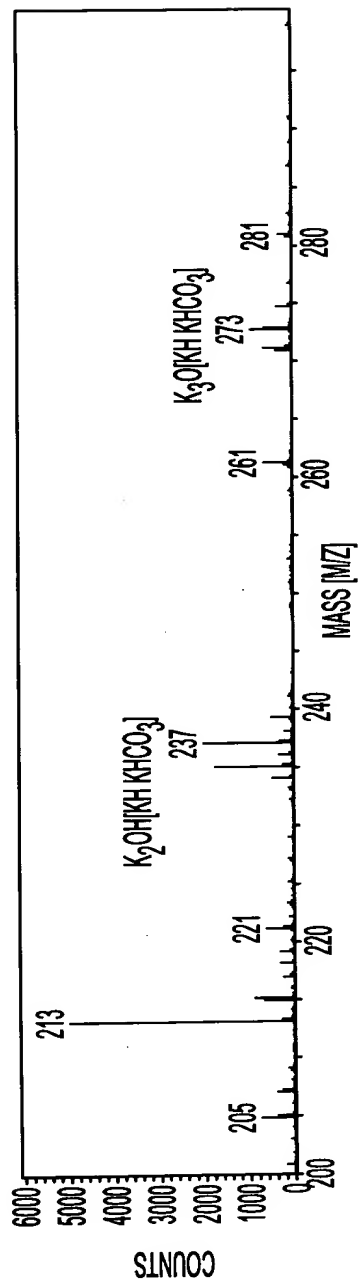
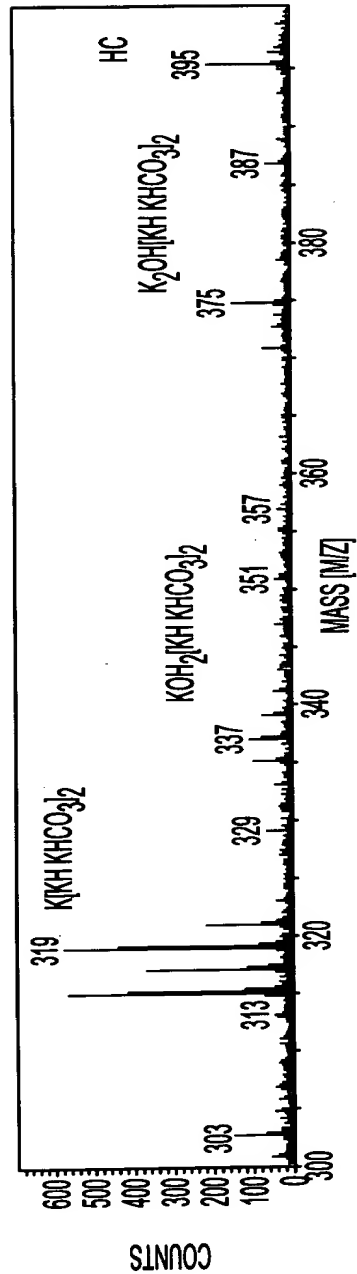


FIG. 8B



APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 8C

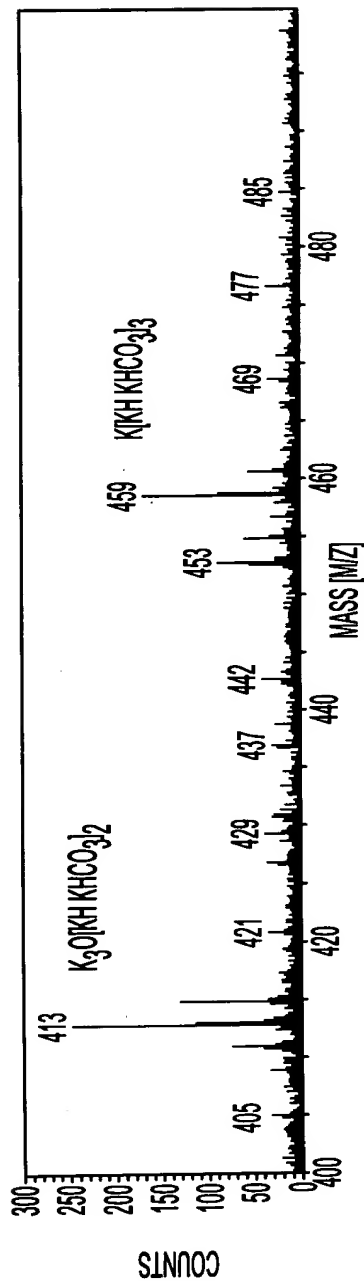
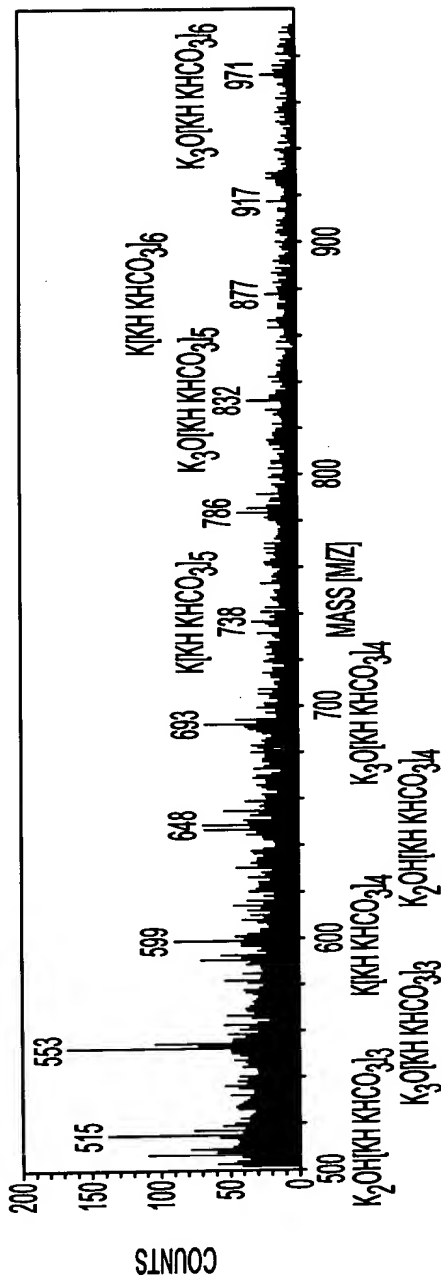
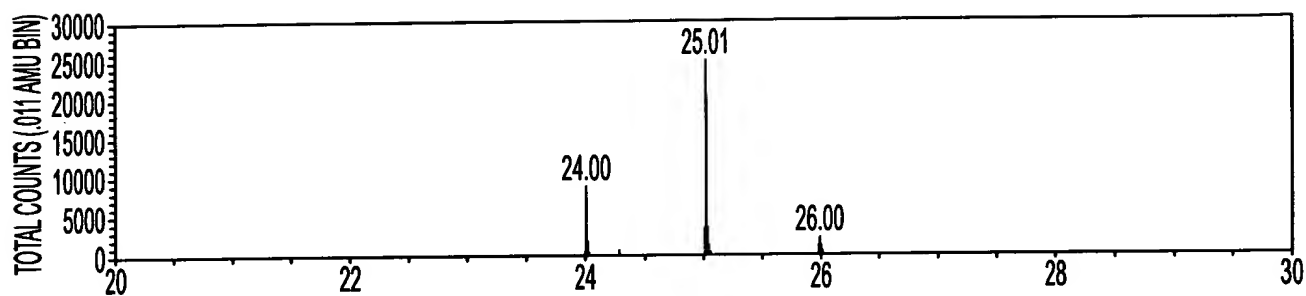


FIG. 8D



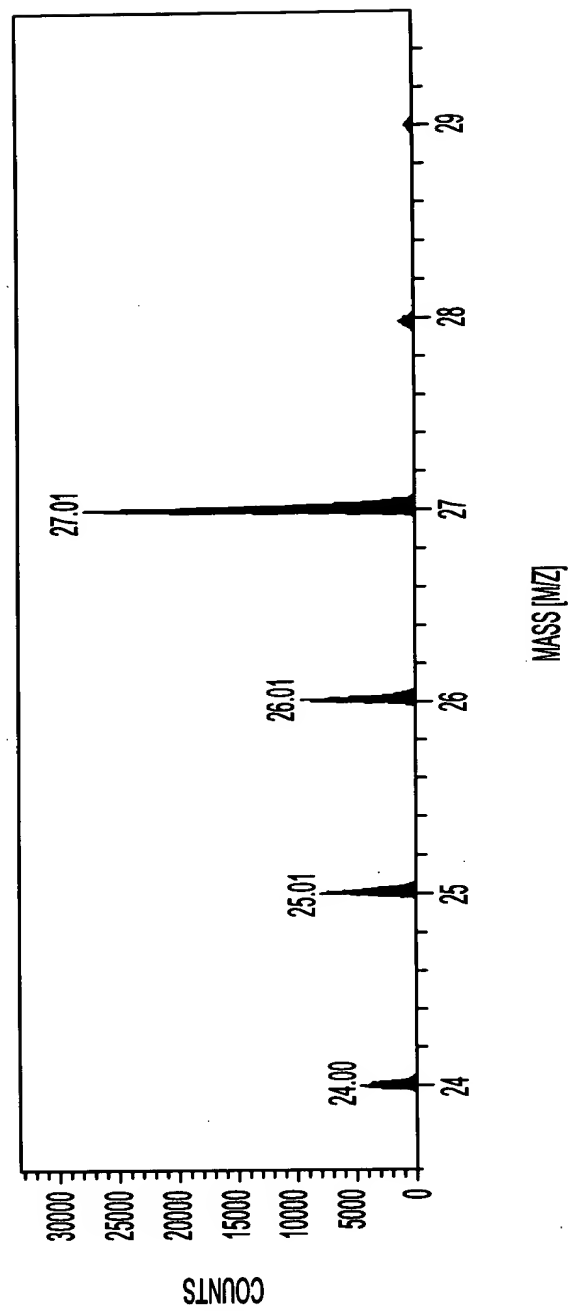
APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 9



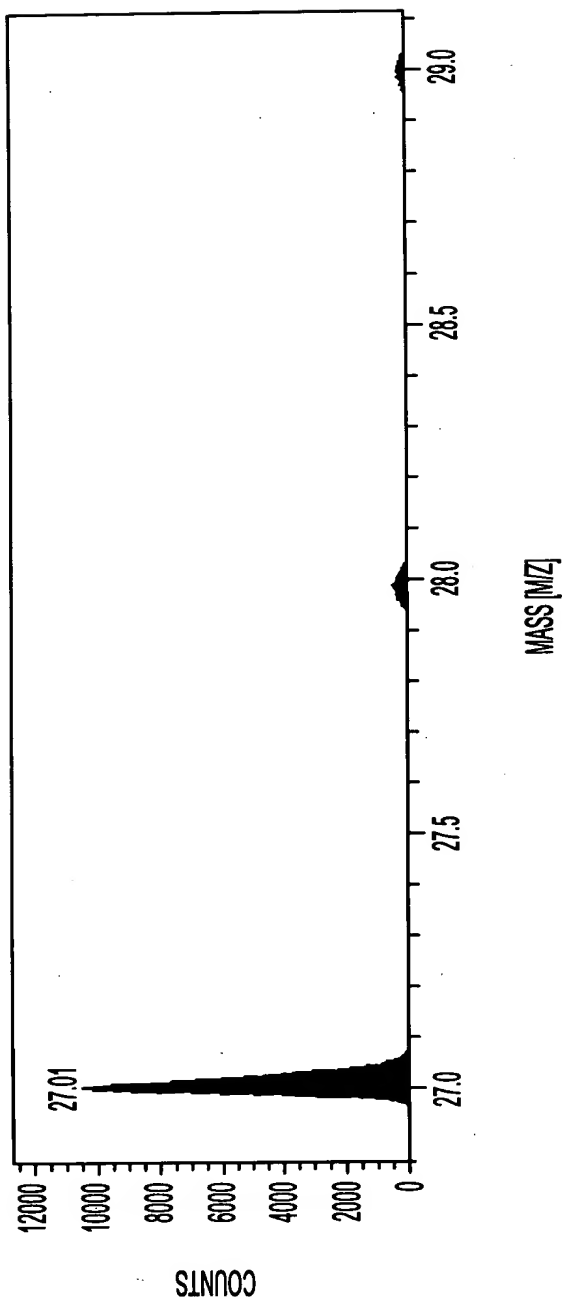
APPROVED	C. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 10



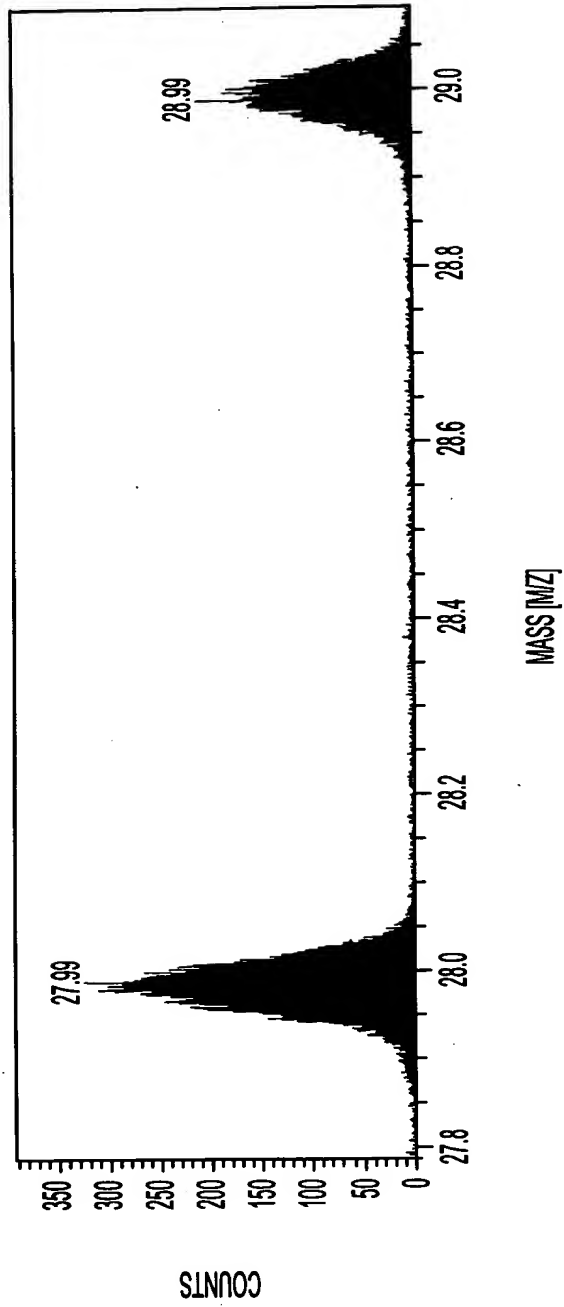
APPROVED	C. B. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 11



APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 12



APPROVED	C. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 13A

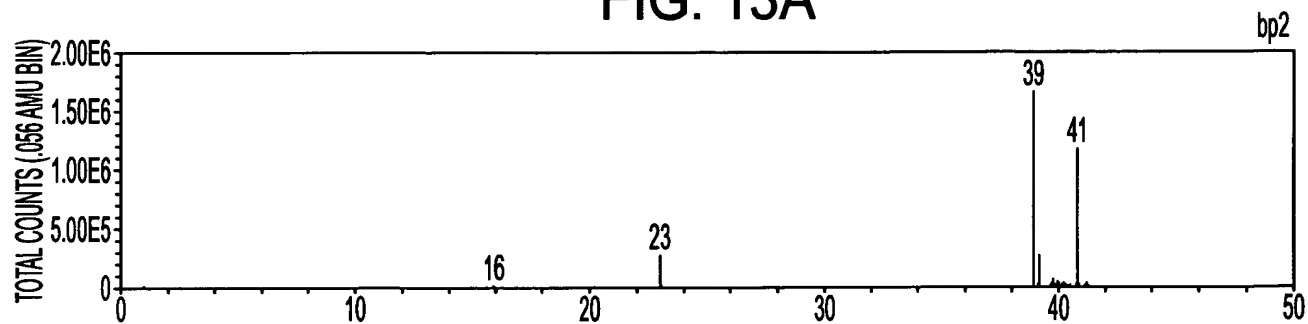


FIG. 13B

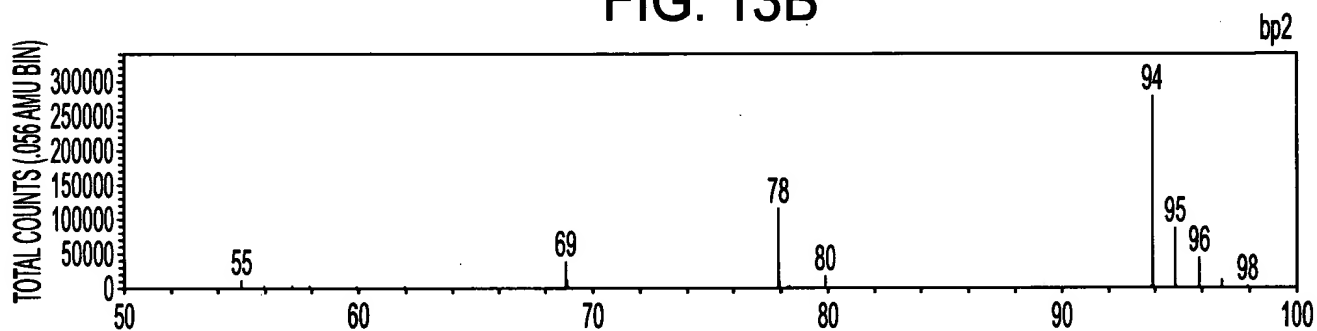


FIG. 13C

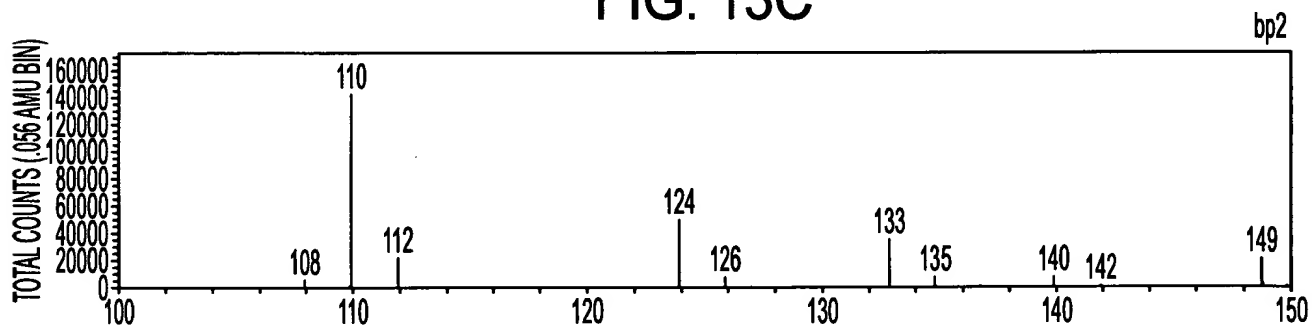
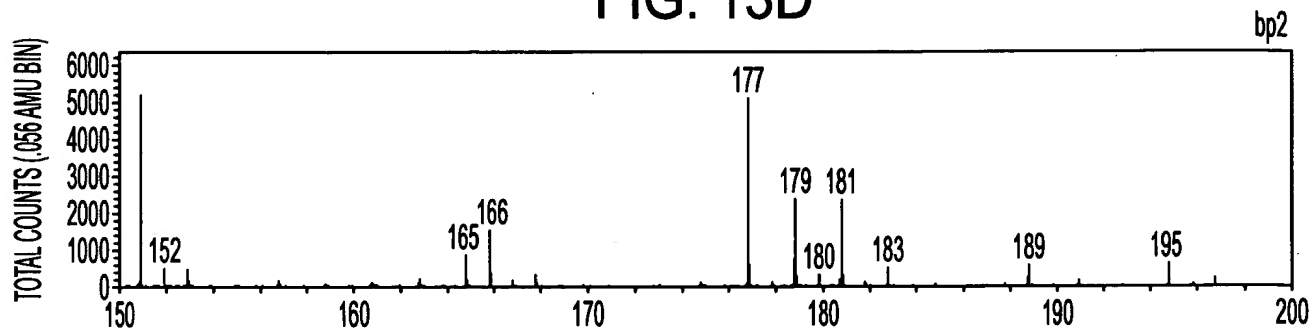
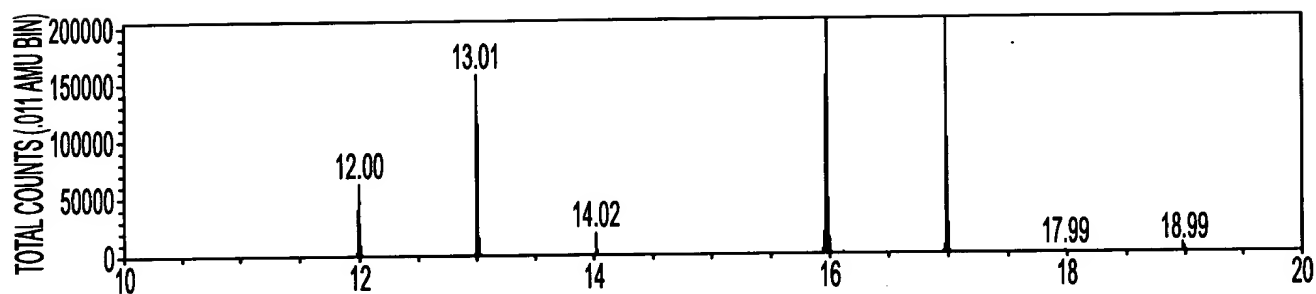


FIG. 13D



APPROVED	C.S. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 14



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

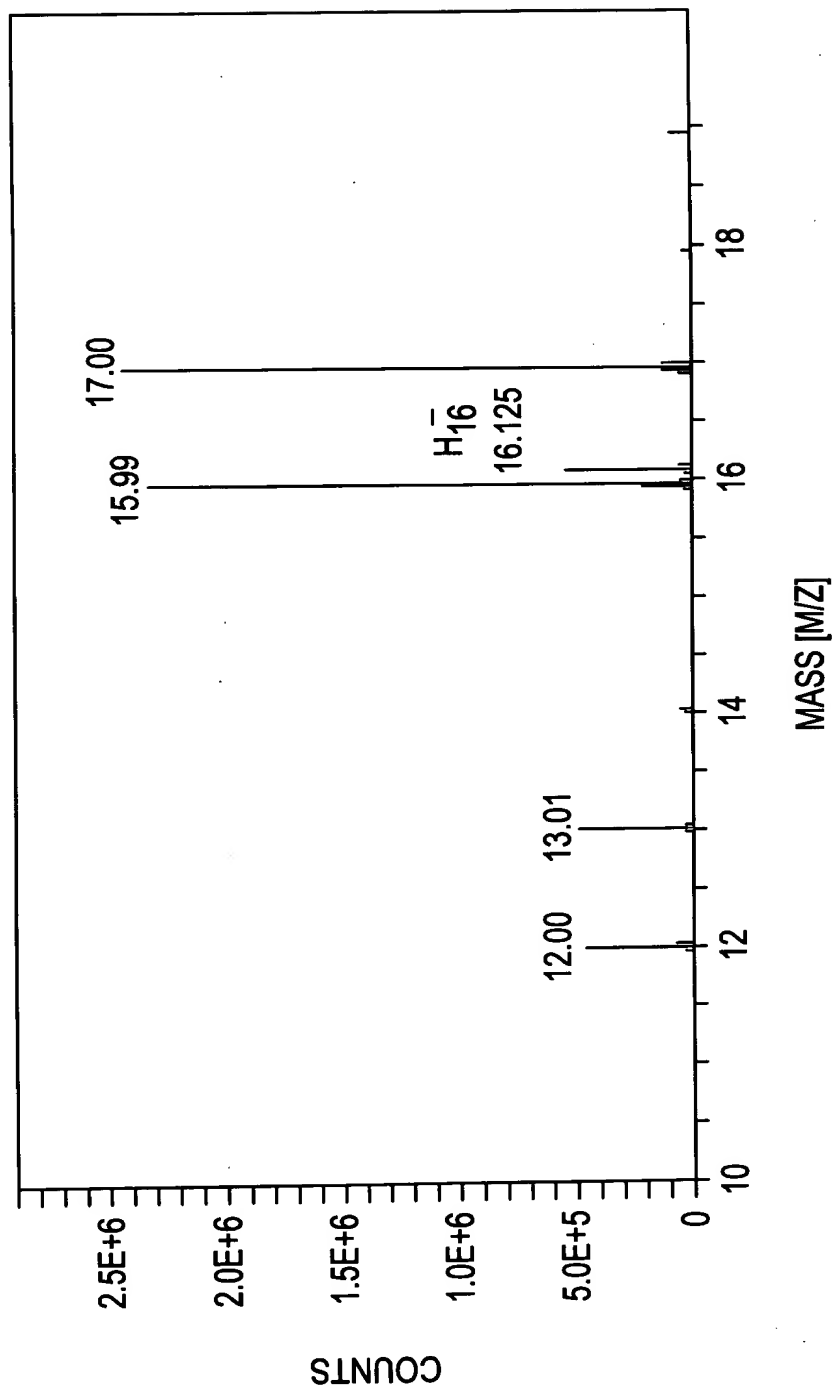
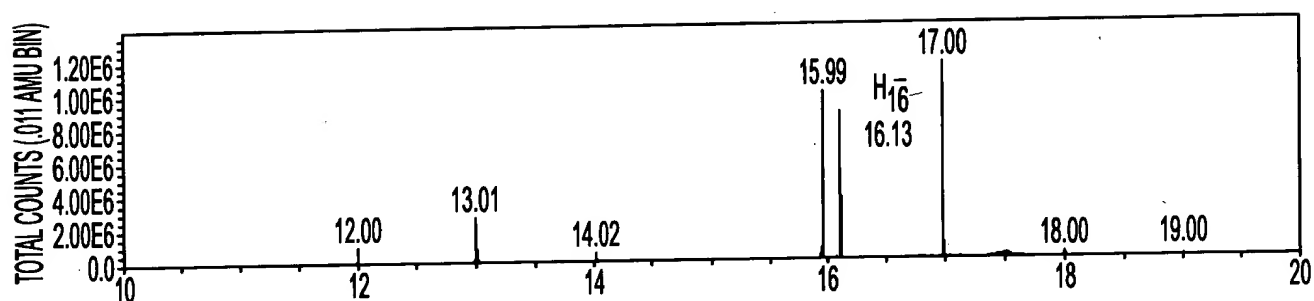


FIG. 15

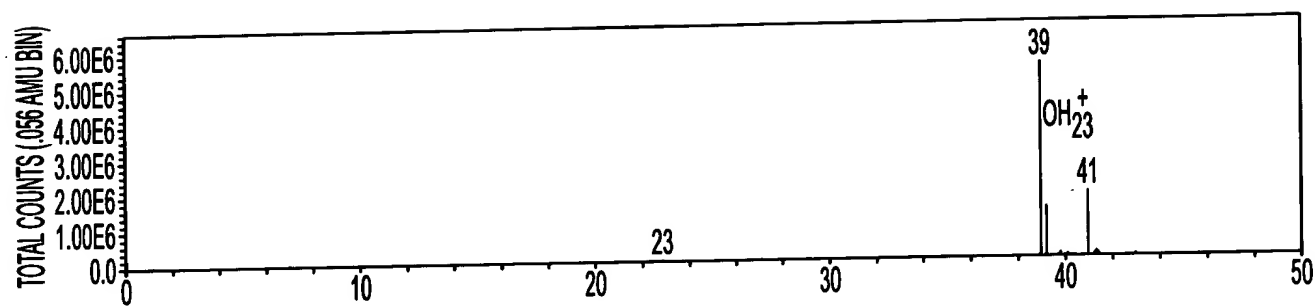
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 16



APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 17



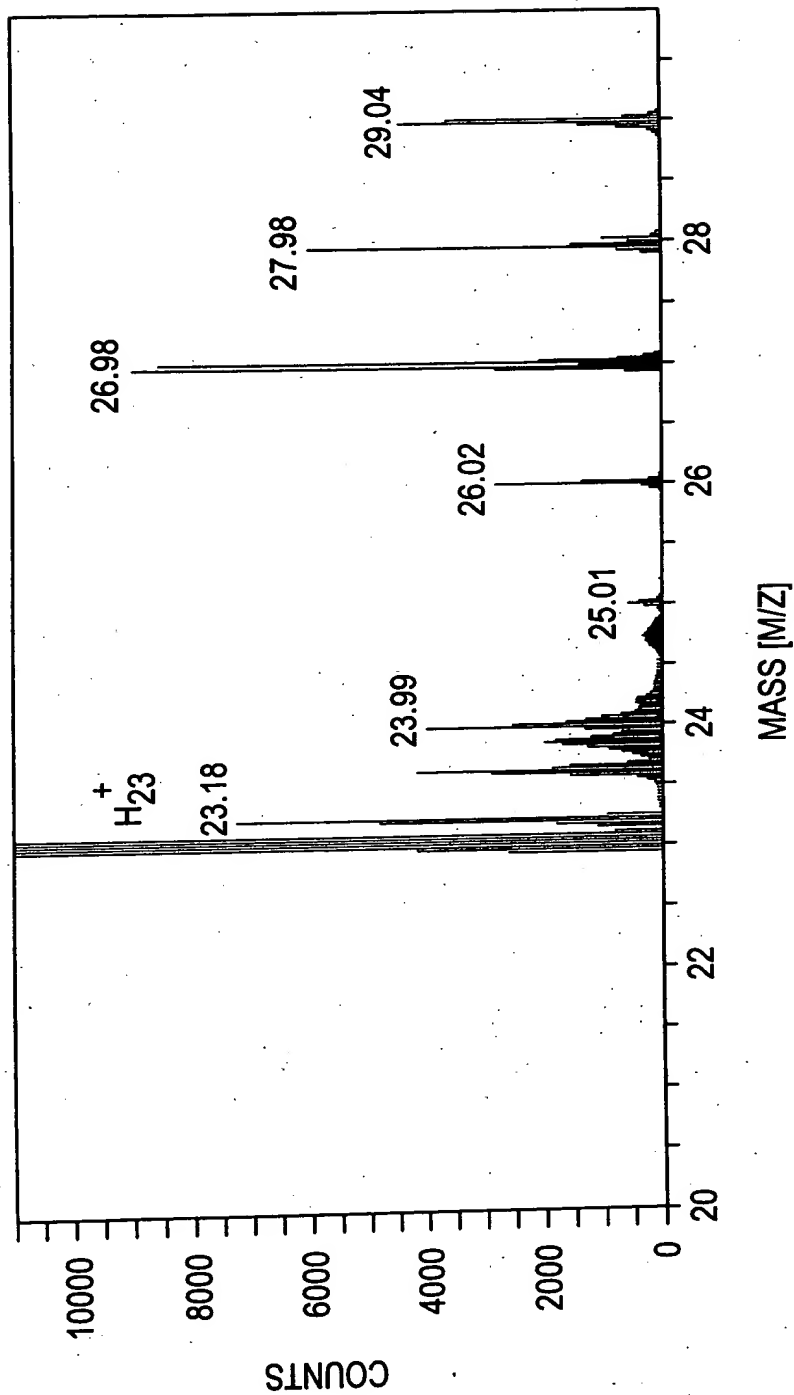


FIG. 18

APPROVED	FIG. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

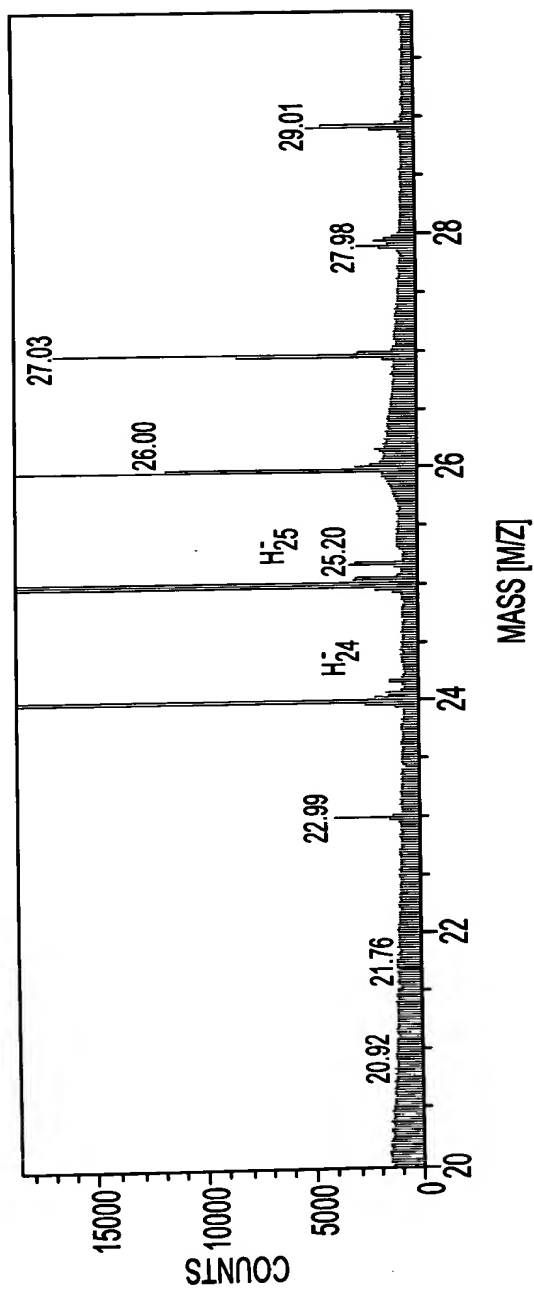


FIG. 19

APPROVED	C.O. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

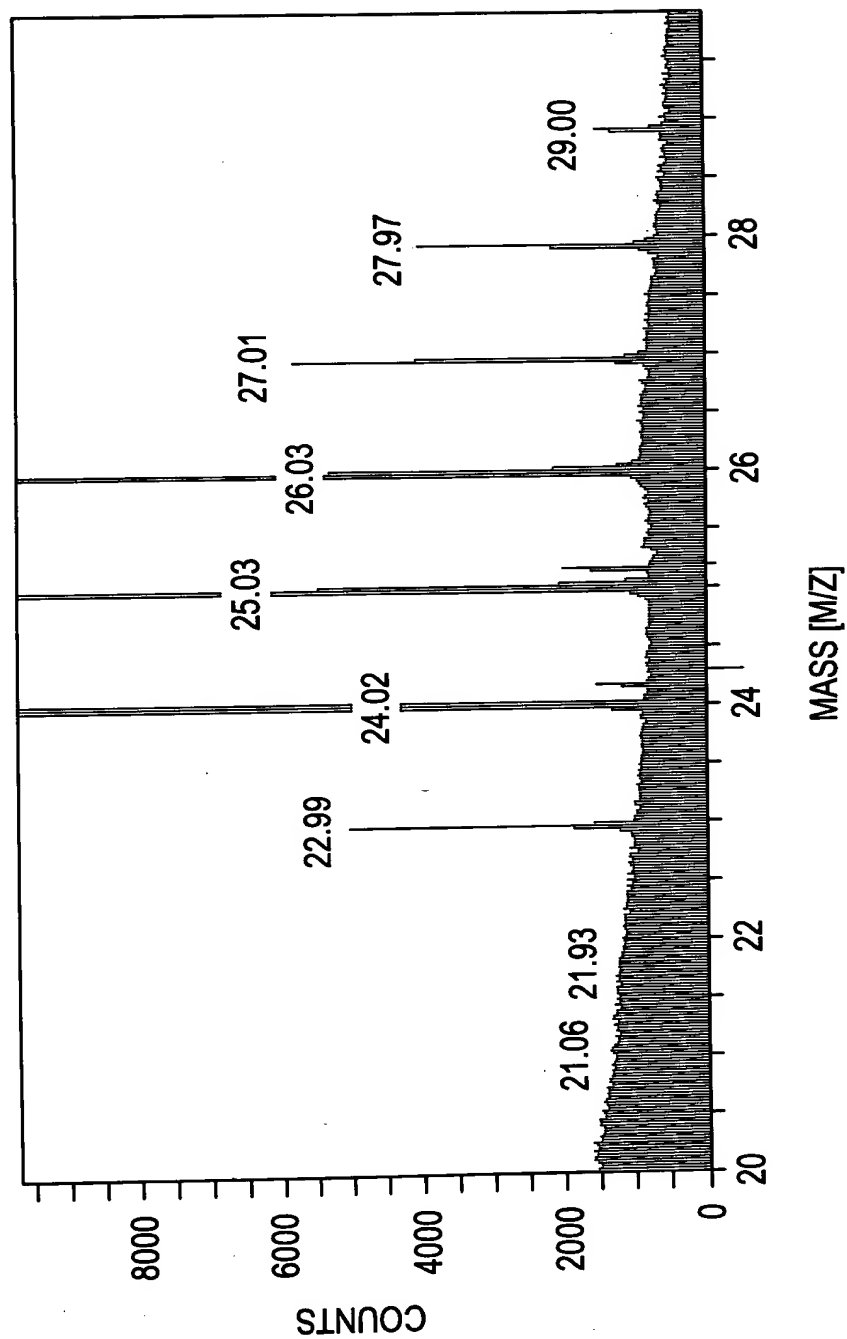


FIG. 20

APPROVED	C.D. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

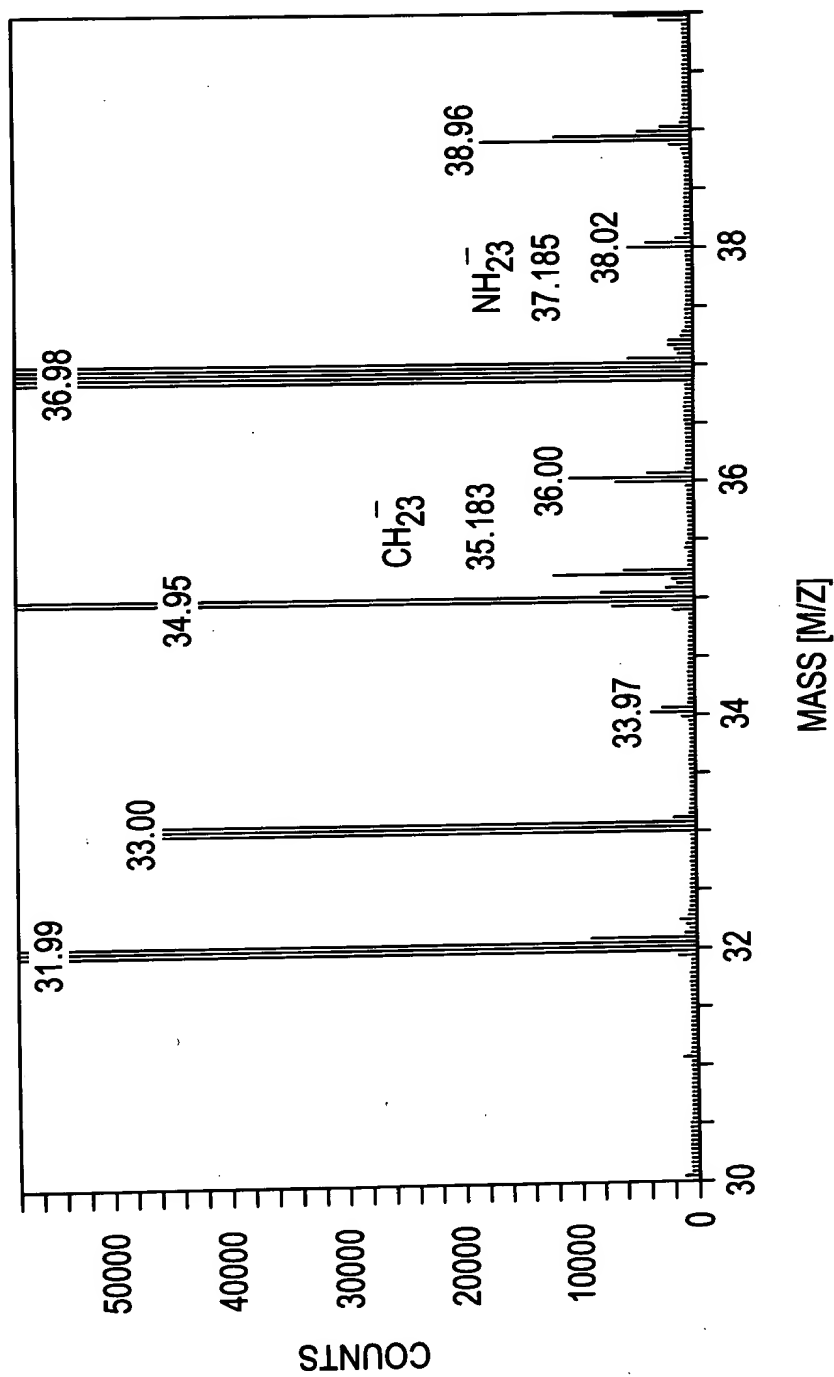


FIG. 21

APPROVED	C. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

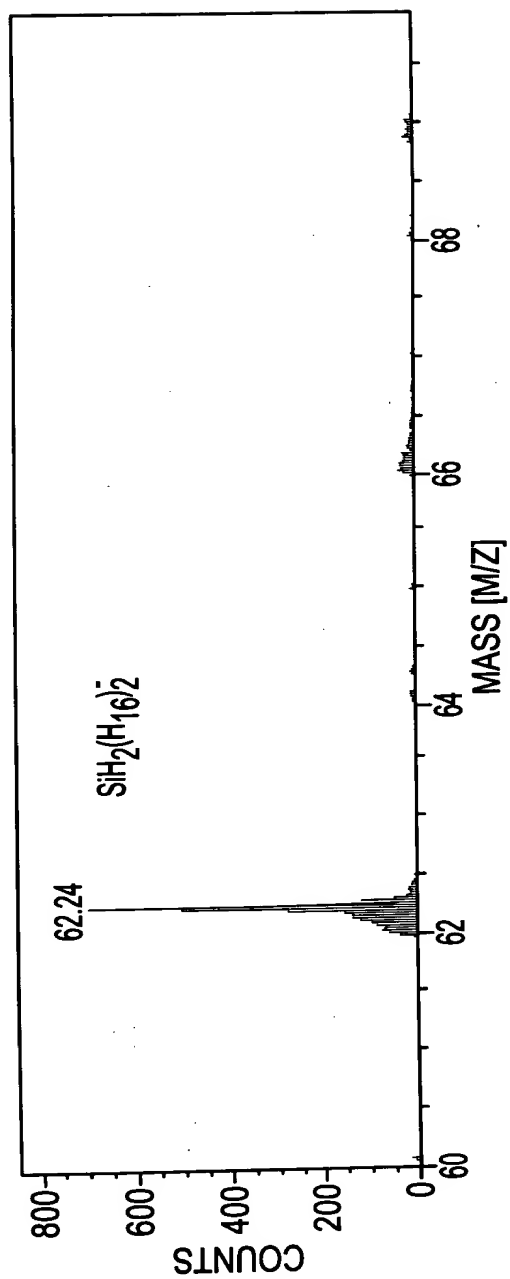


FIG. 22

APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 23A

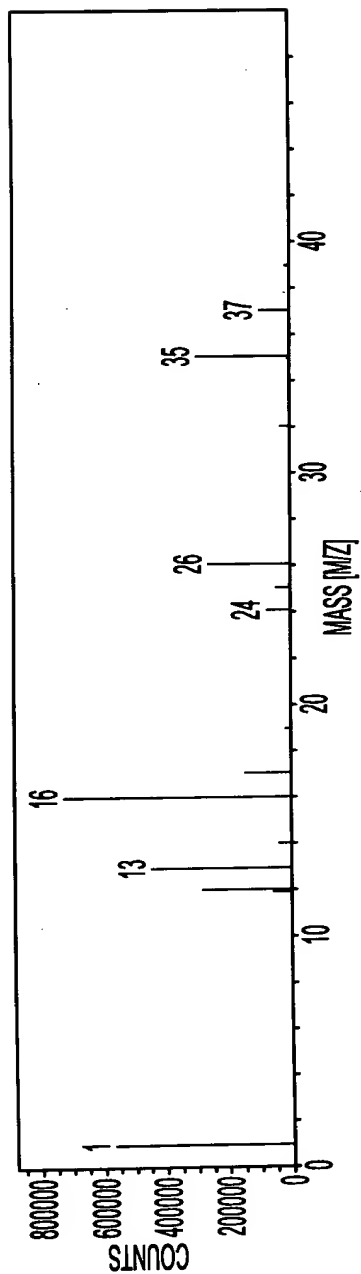
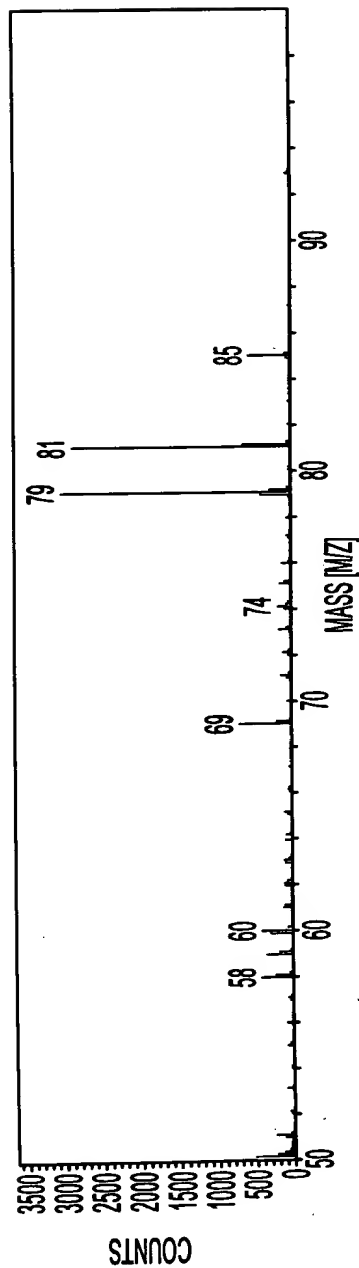


FIG. 23B



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 23C

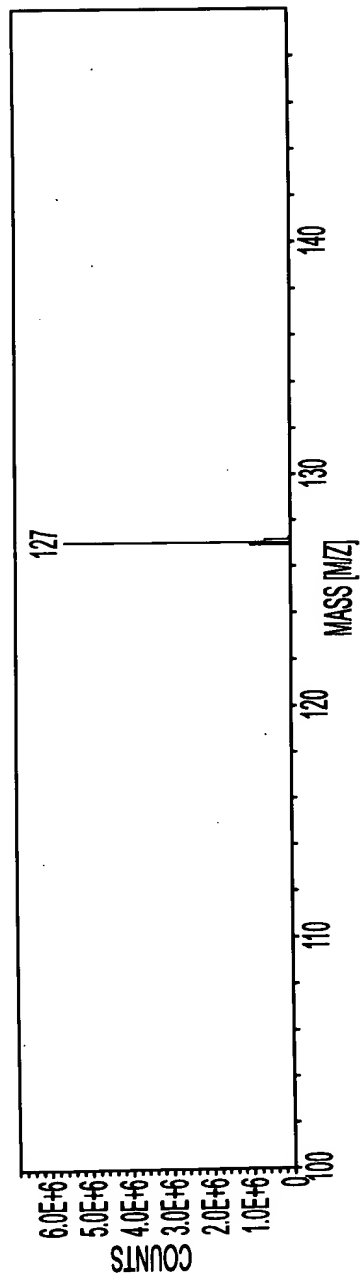


FIG. 23D

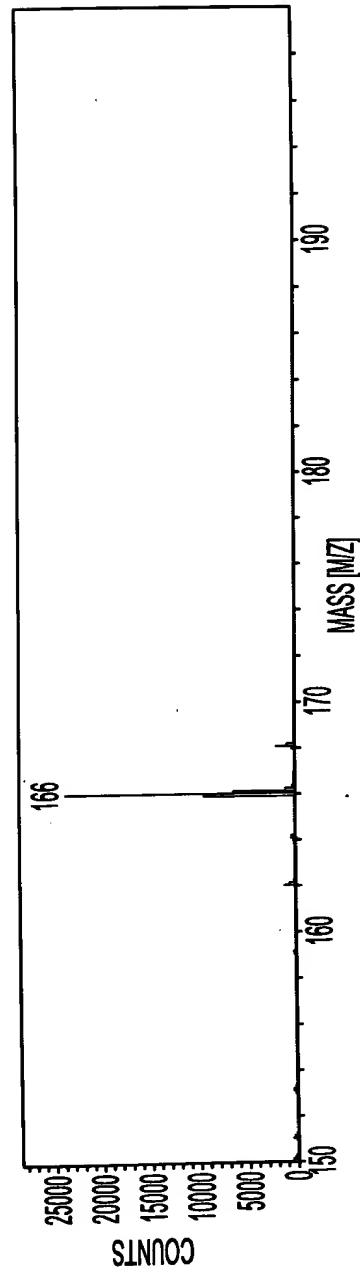


FIG. 24A

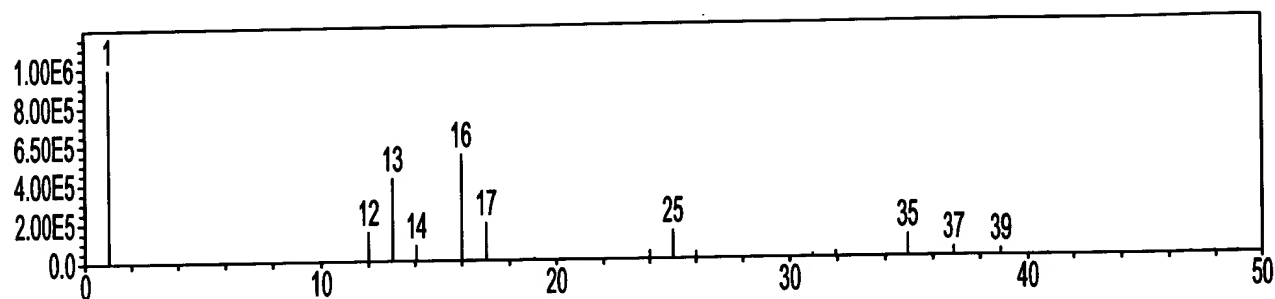


FIG. 24B

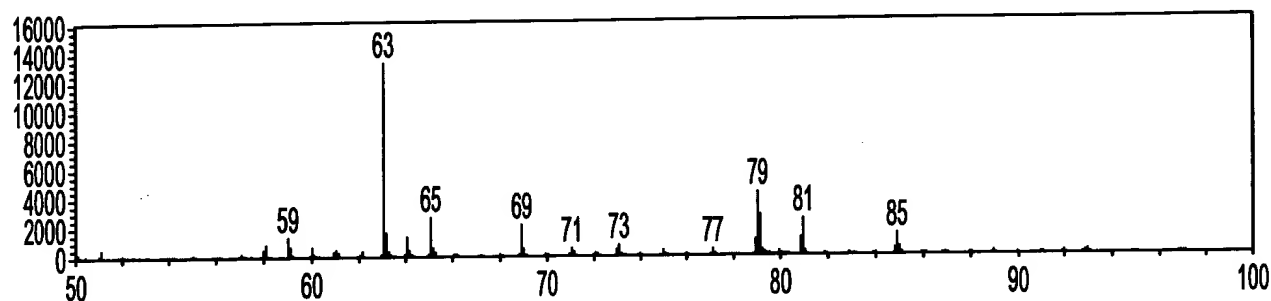


FIG. 24C

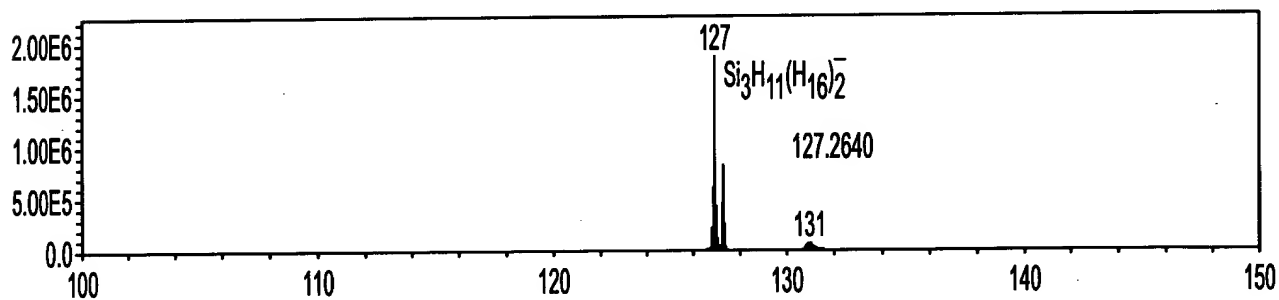
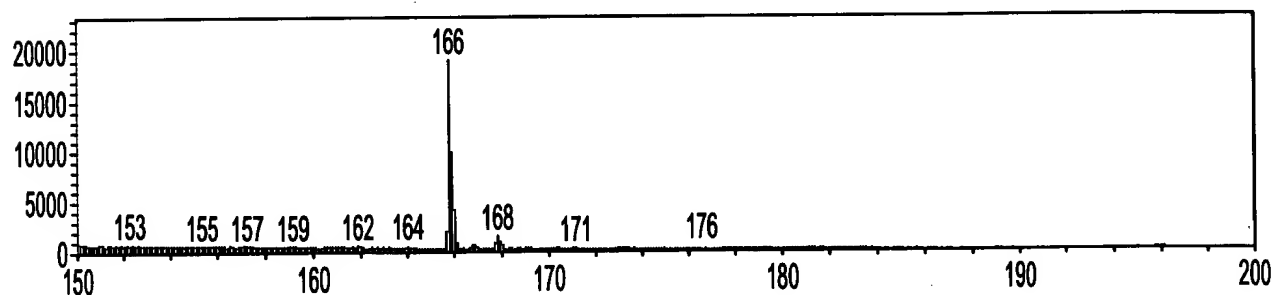
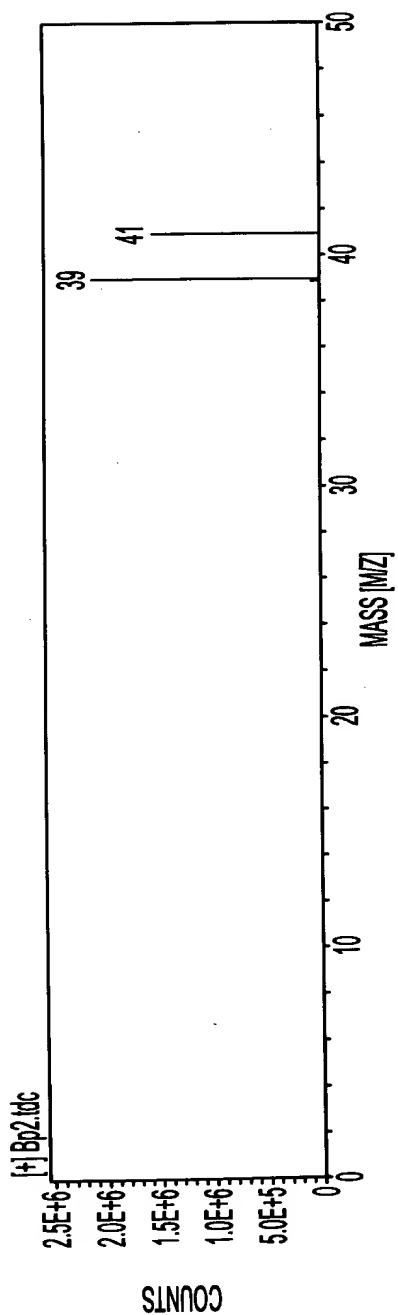


FIG. 24D



APPROVED	C.B. FIG.	
BY	CLASS	SUBCLASS
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FIG. 25



APPROVED	O.S. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

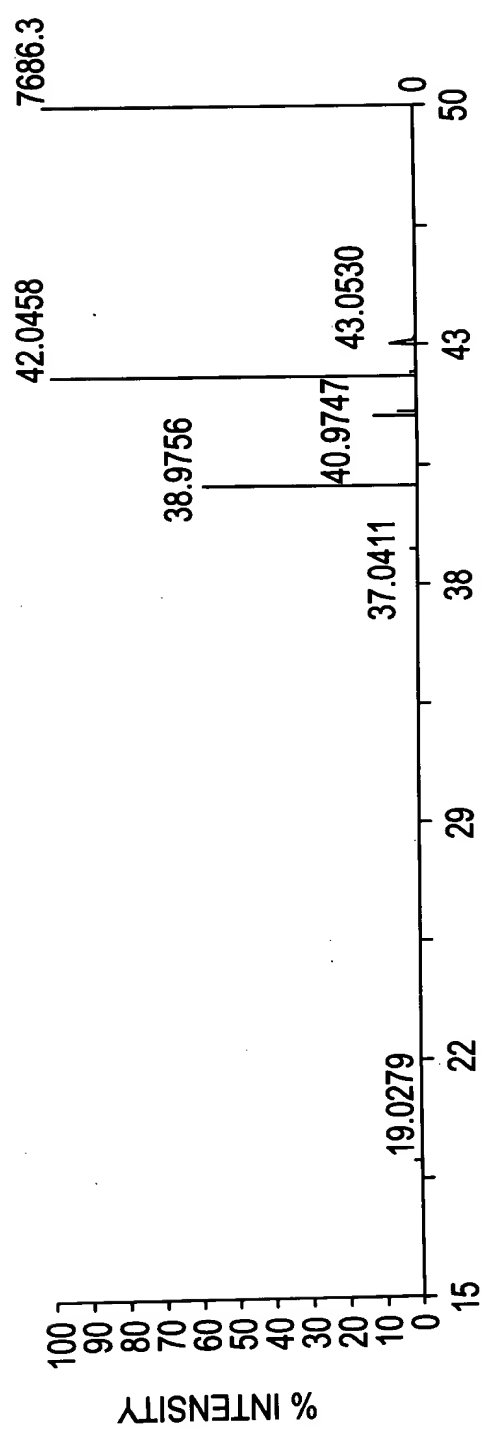


FIG. 27A

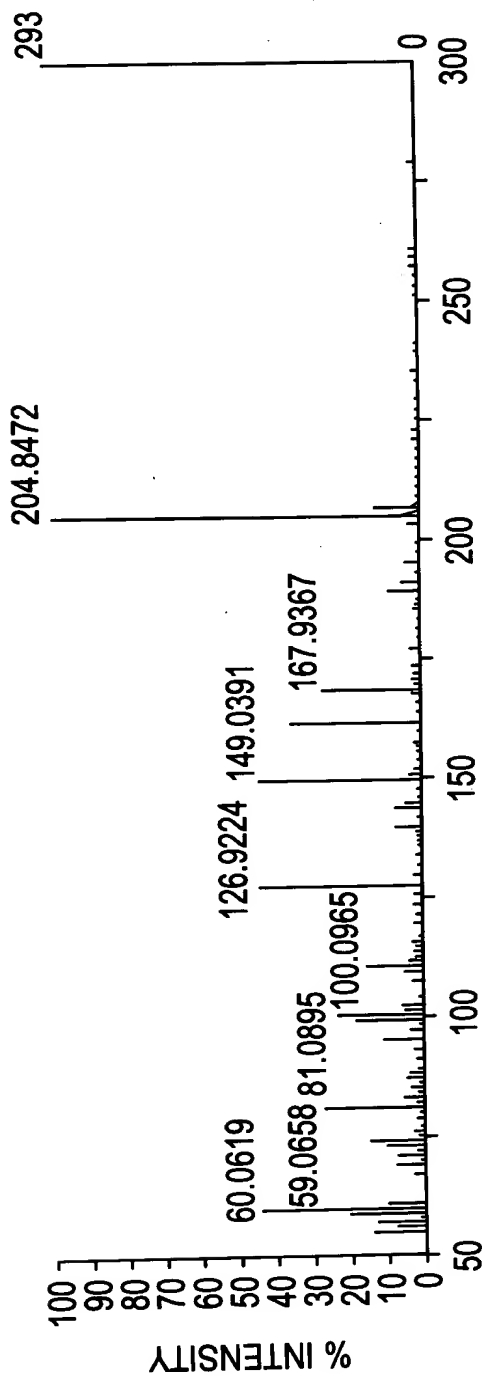


FIG. 27B

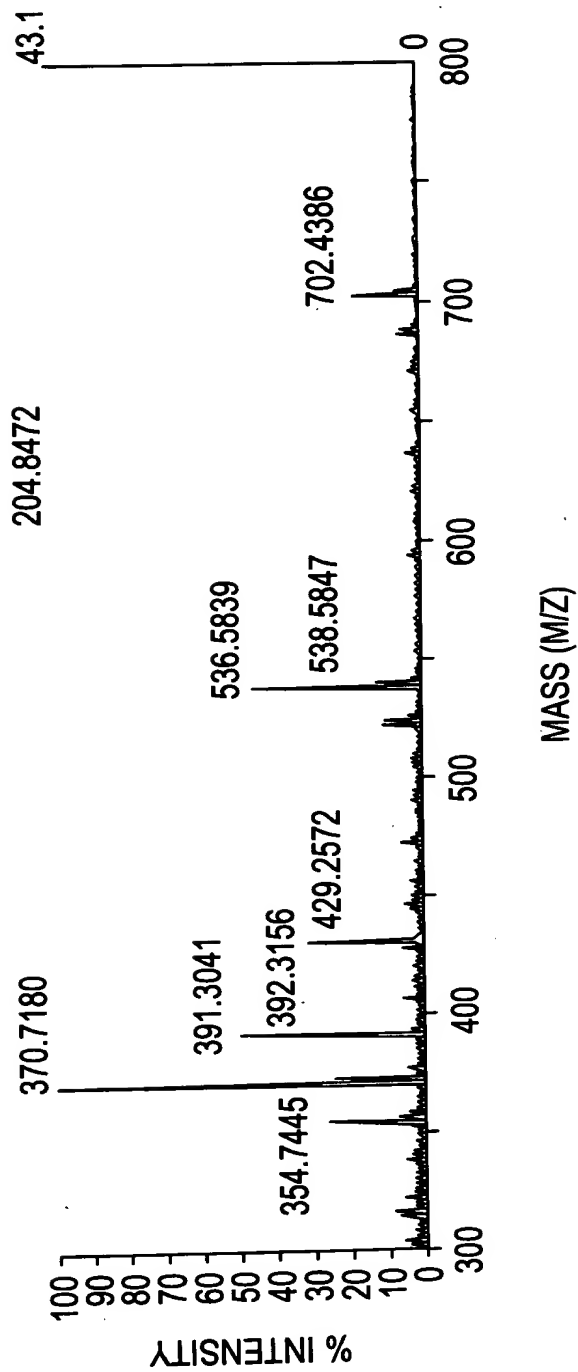
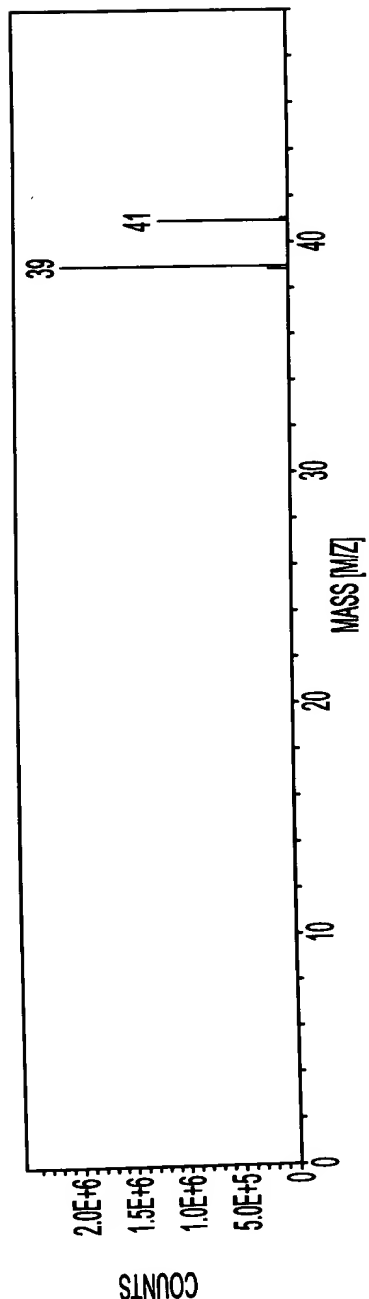


FIG. 27C

APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
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FIG. 28



4000 3000 2000 1000 0
 10 20 30 40
 0 500000 1000000 1500000 2000000
 COUNTS

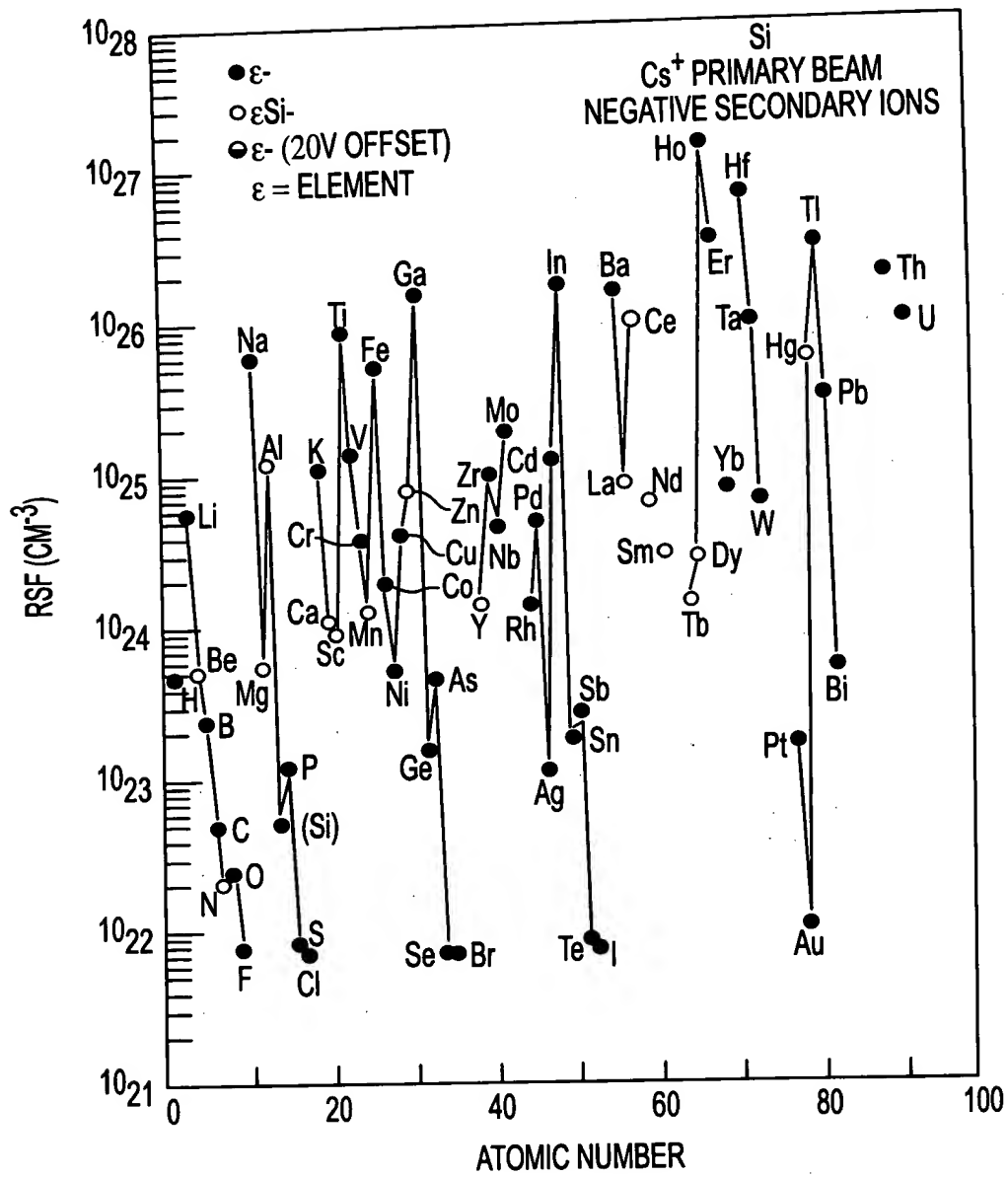
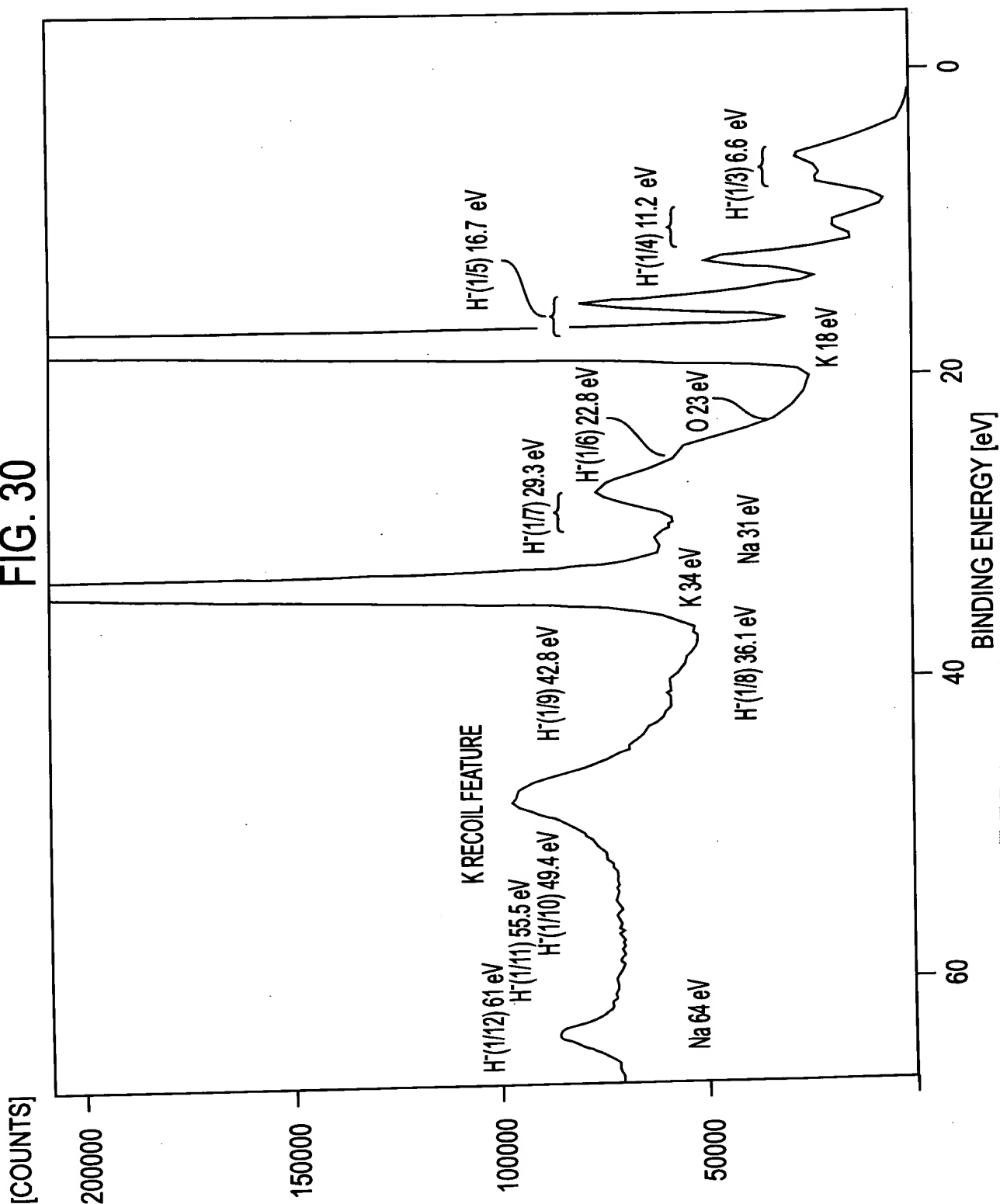


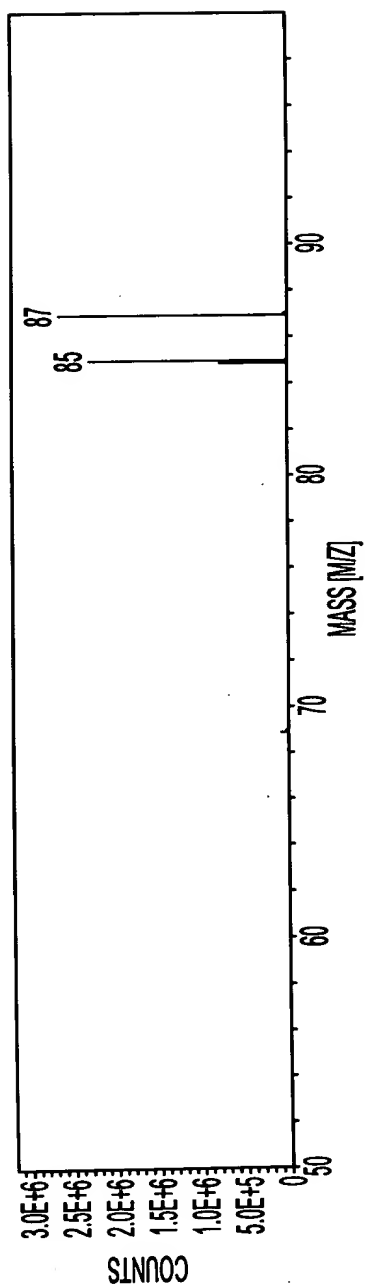
FIG. 29

FIG. 30



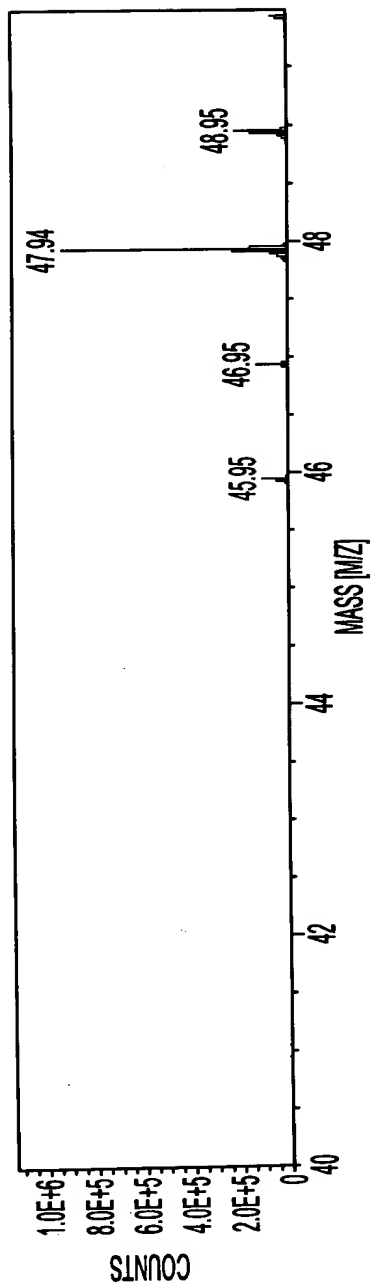
APPROVED	O.C. FIG.	
BY	CLASS	SUBCLASS
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FIG. 31



APPROVED	C. G. FIG.	
BY	CLASS	SUBCLASS
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FIG. 33



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APPROVED	C. G. FIG.	
BY	CLASS	SUBCLASS
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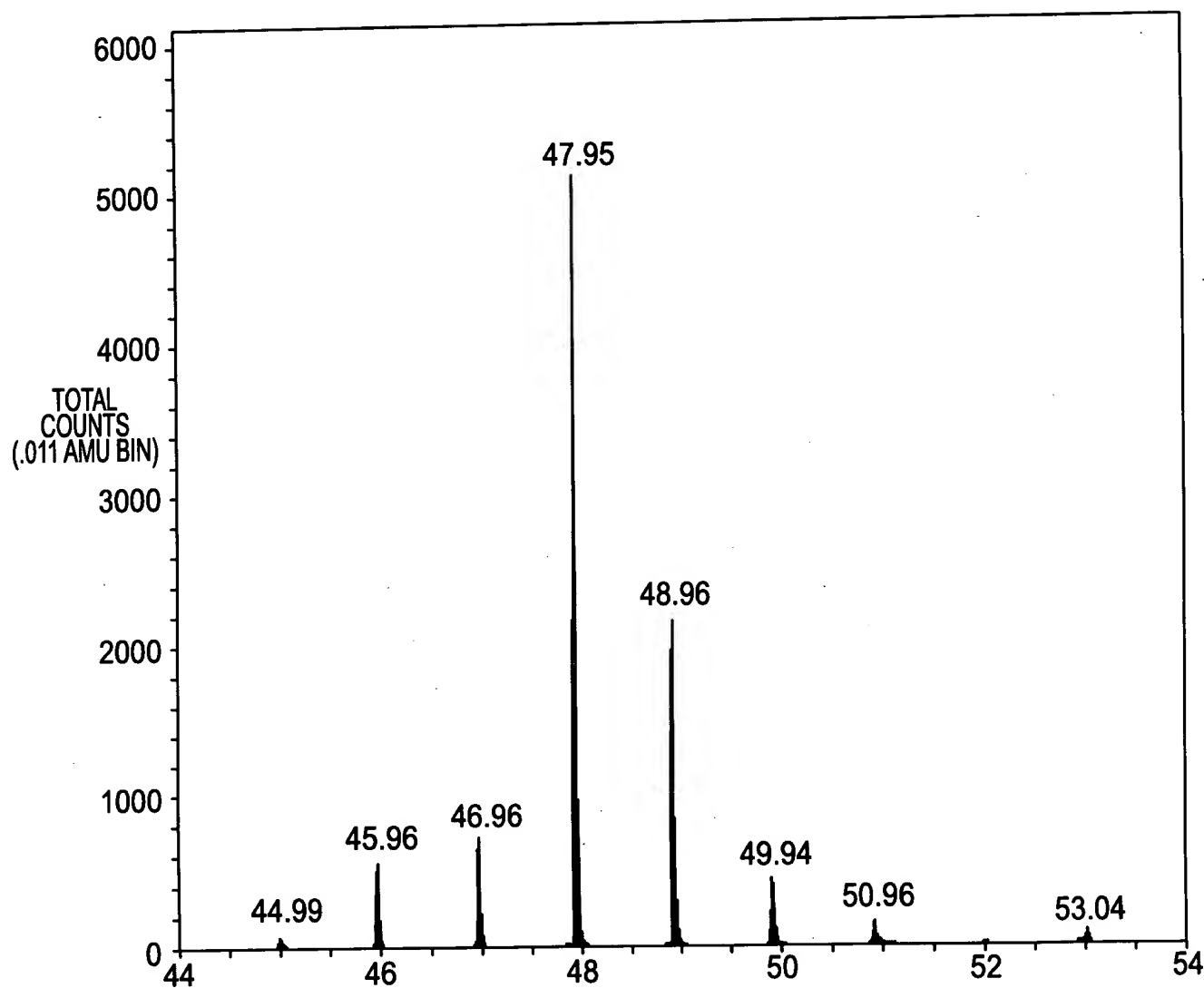
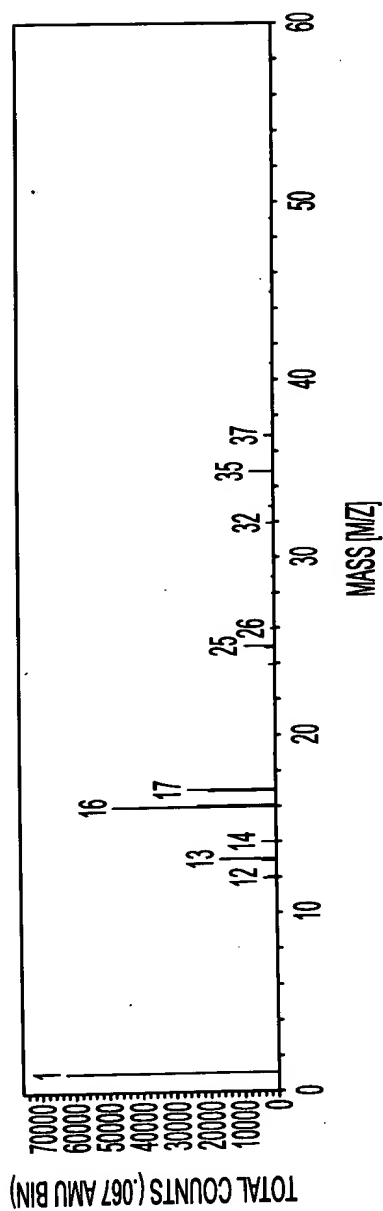


FIG.35

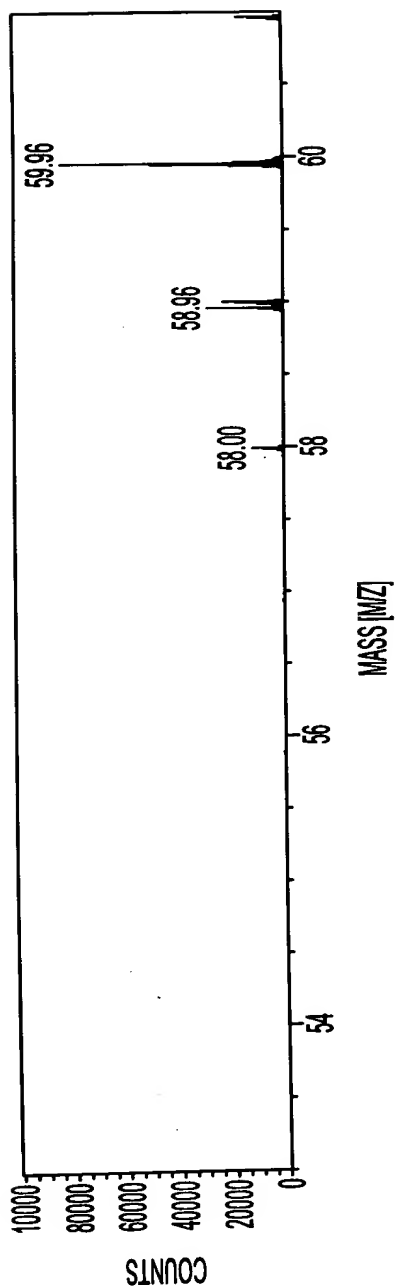
APPROVED	C.B. FIG.	
BY	CLASS	SUBCLASS
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FIG. 36



APPROVED	C. D. FIG.	
BY	CLASS	SUBCLASS
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FIG. 37



APPROVED	C. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

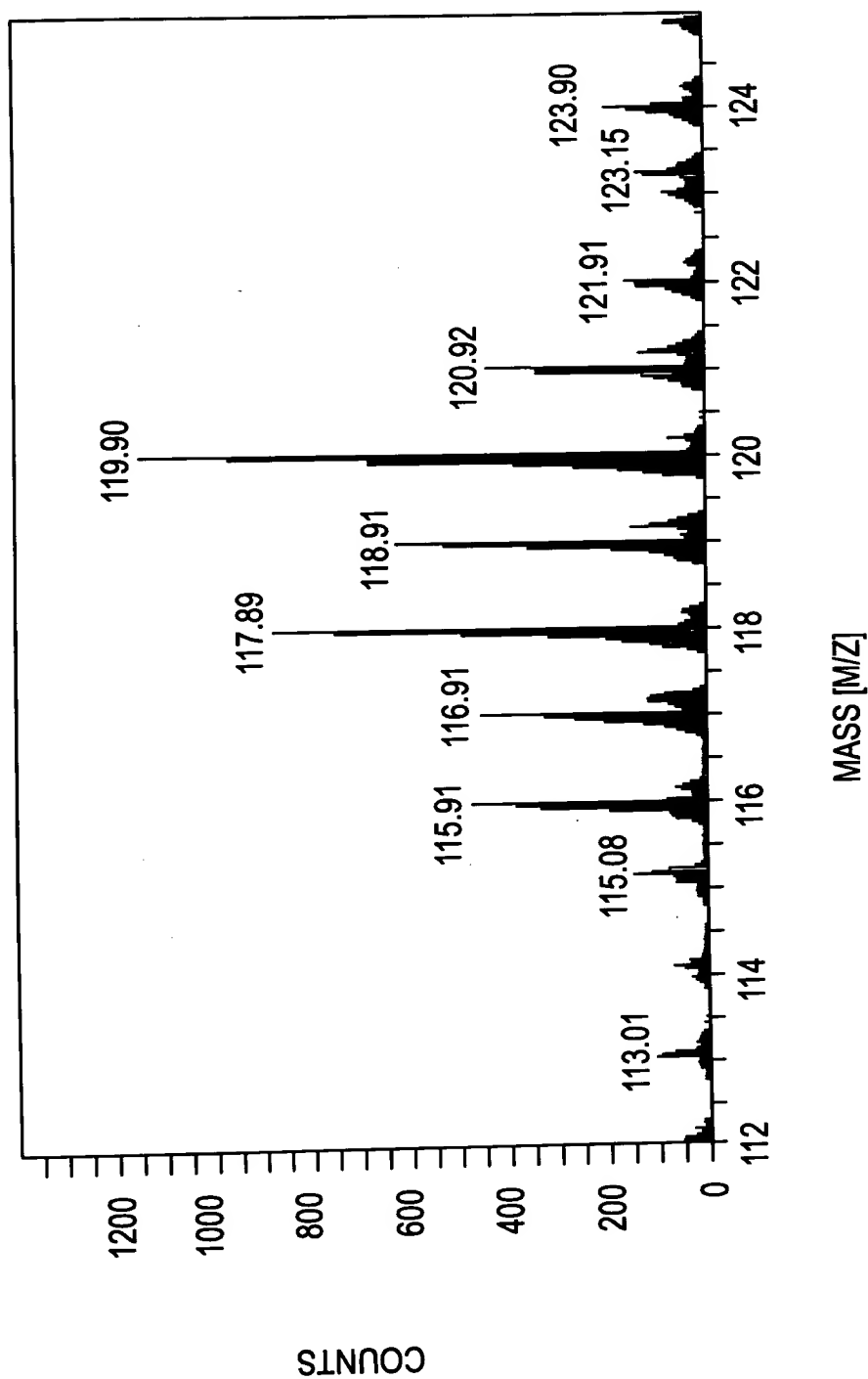
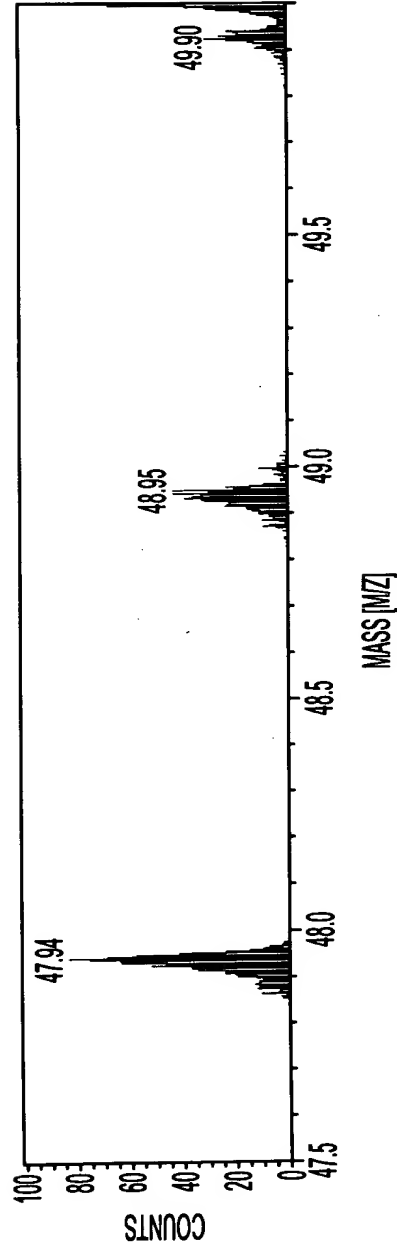


FIG. 39

APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
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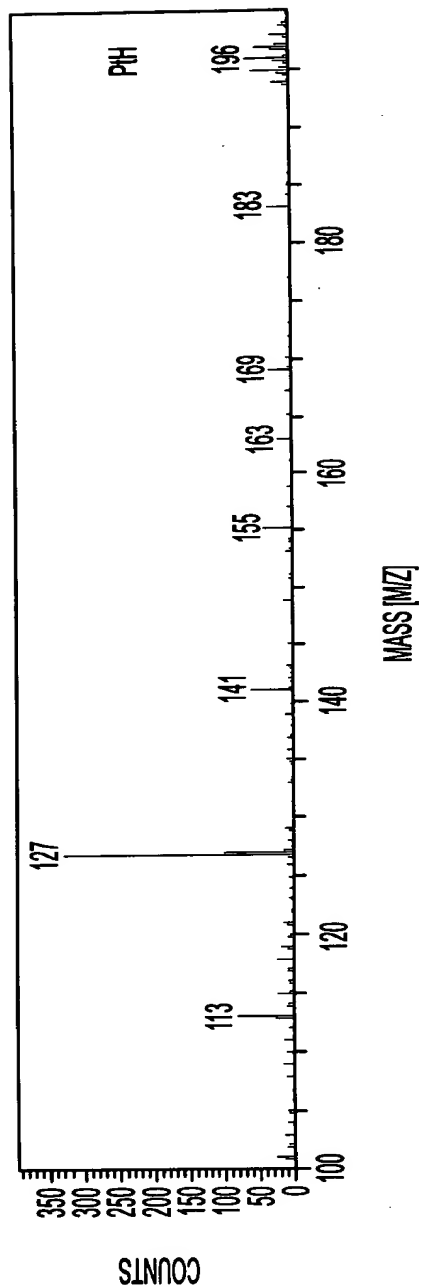
FIG. 41



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APPROVED	C.D. FIG.	
BY	CLASS	SUBCLASS
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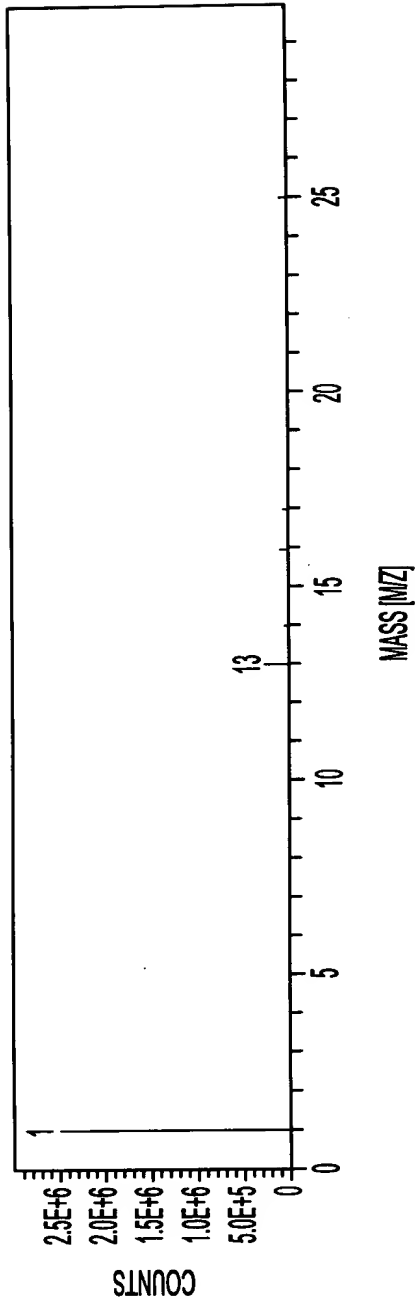
FIG. 42



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APPROVED	FIG.	
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FIG. 44



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 CONCLUSIONS OF THE NATIONAL BUREAU OF STANDARDS
 AND IS NOT INTENDED TO BE USED IN LEGAL PROCEEDINGS

APPROVED	FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

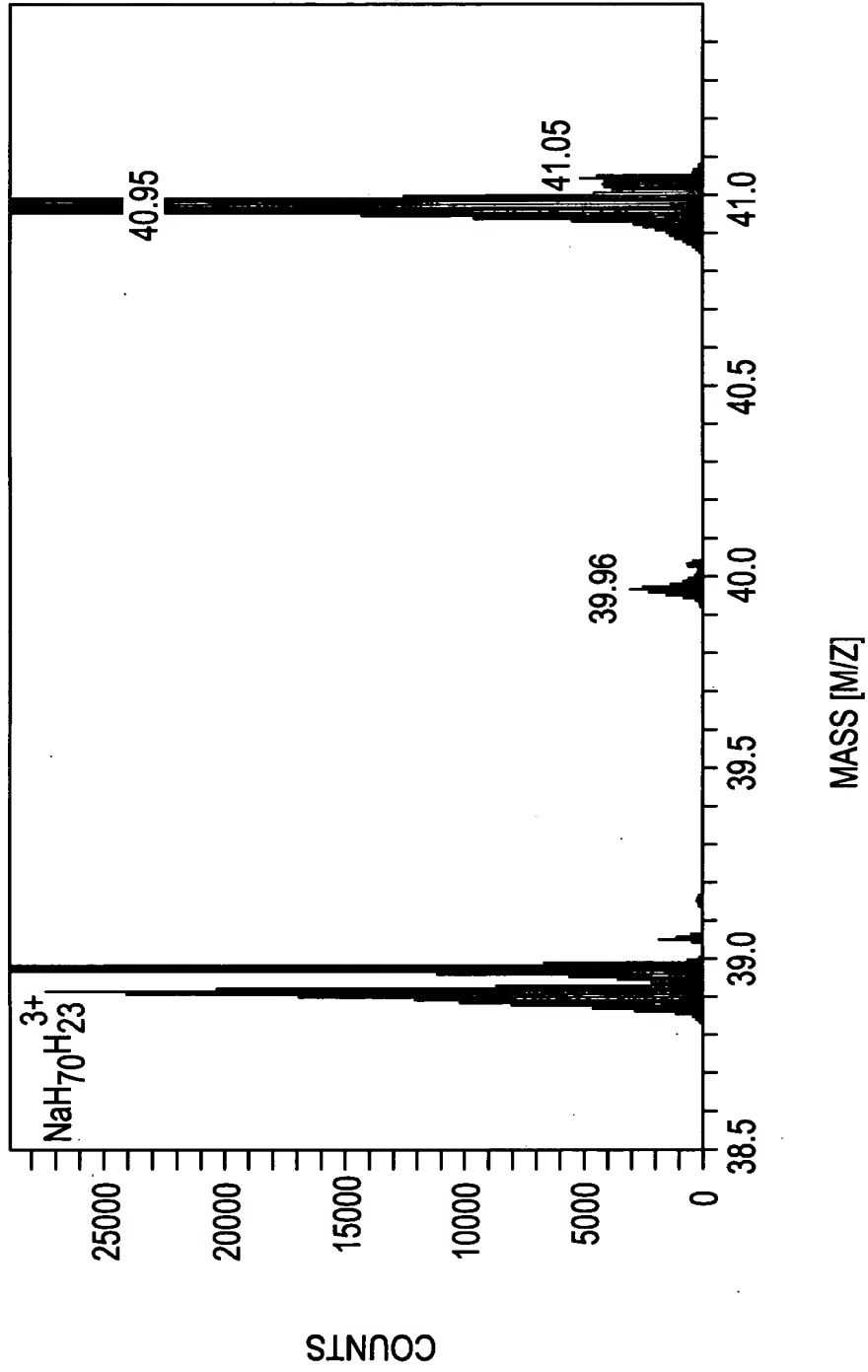


FIG. 46

APPROVED	C. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

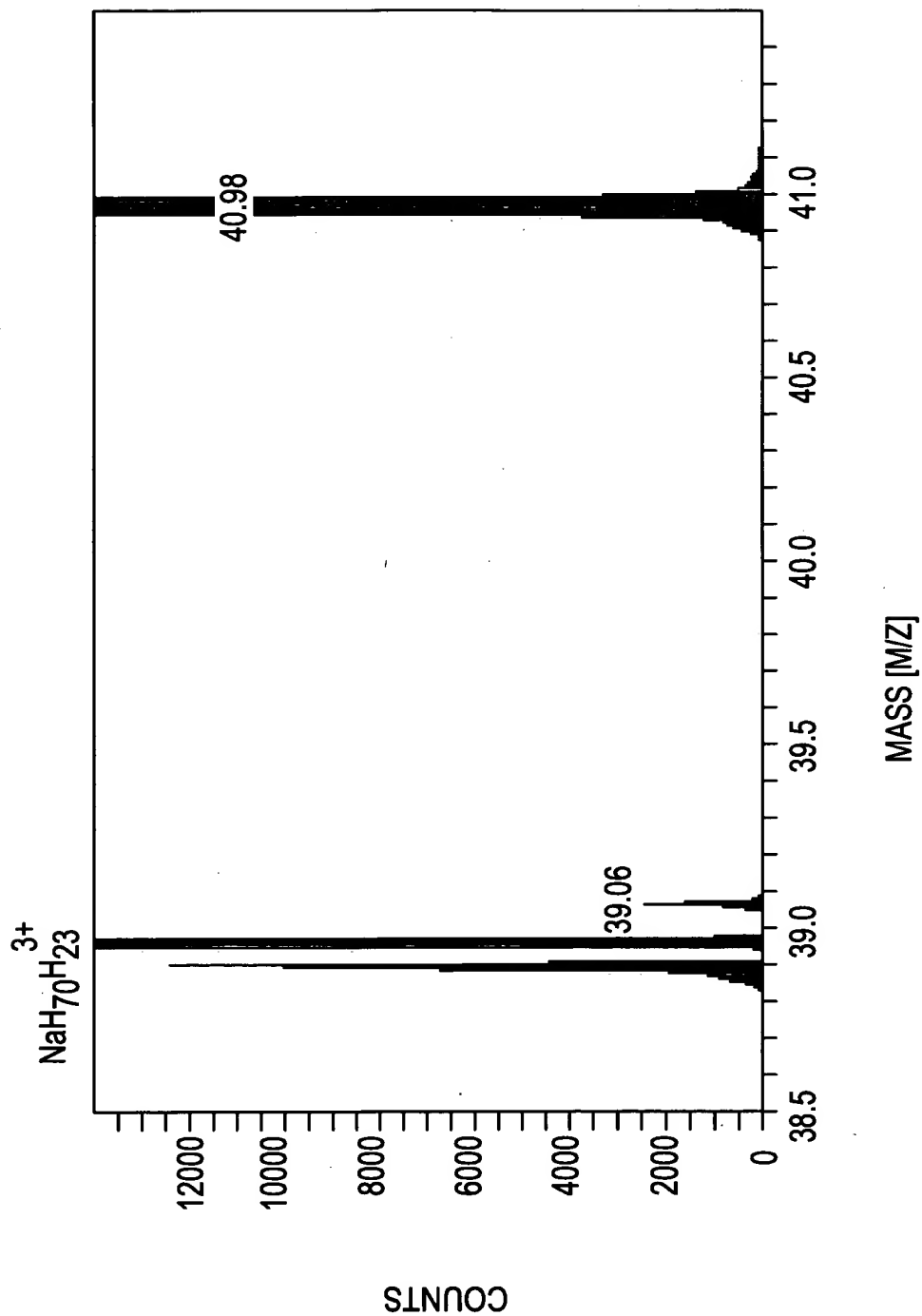


FIG. 47

APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

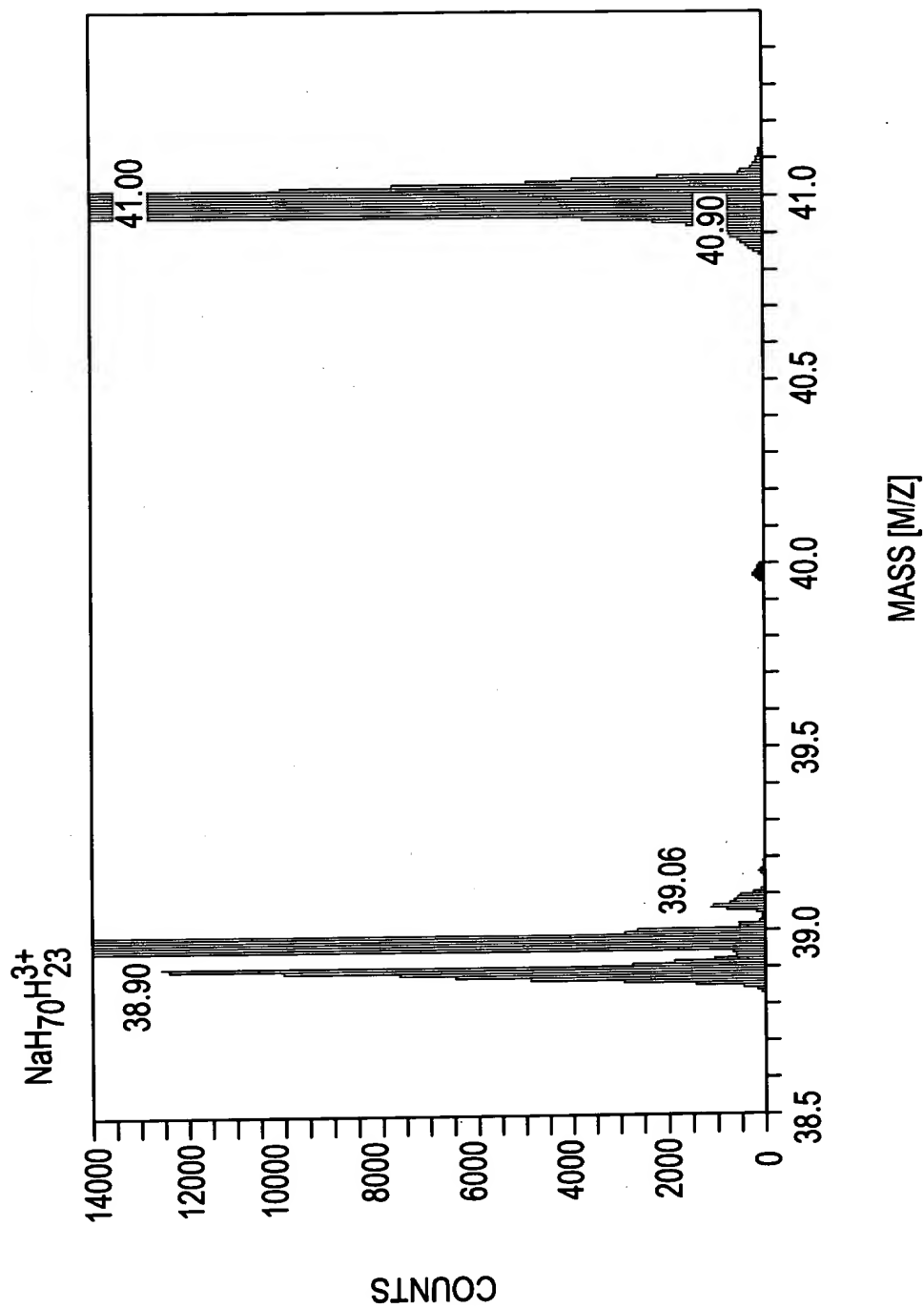


FIG. 48

APPROVED	C. Q. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

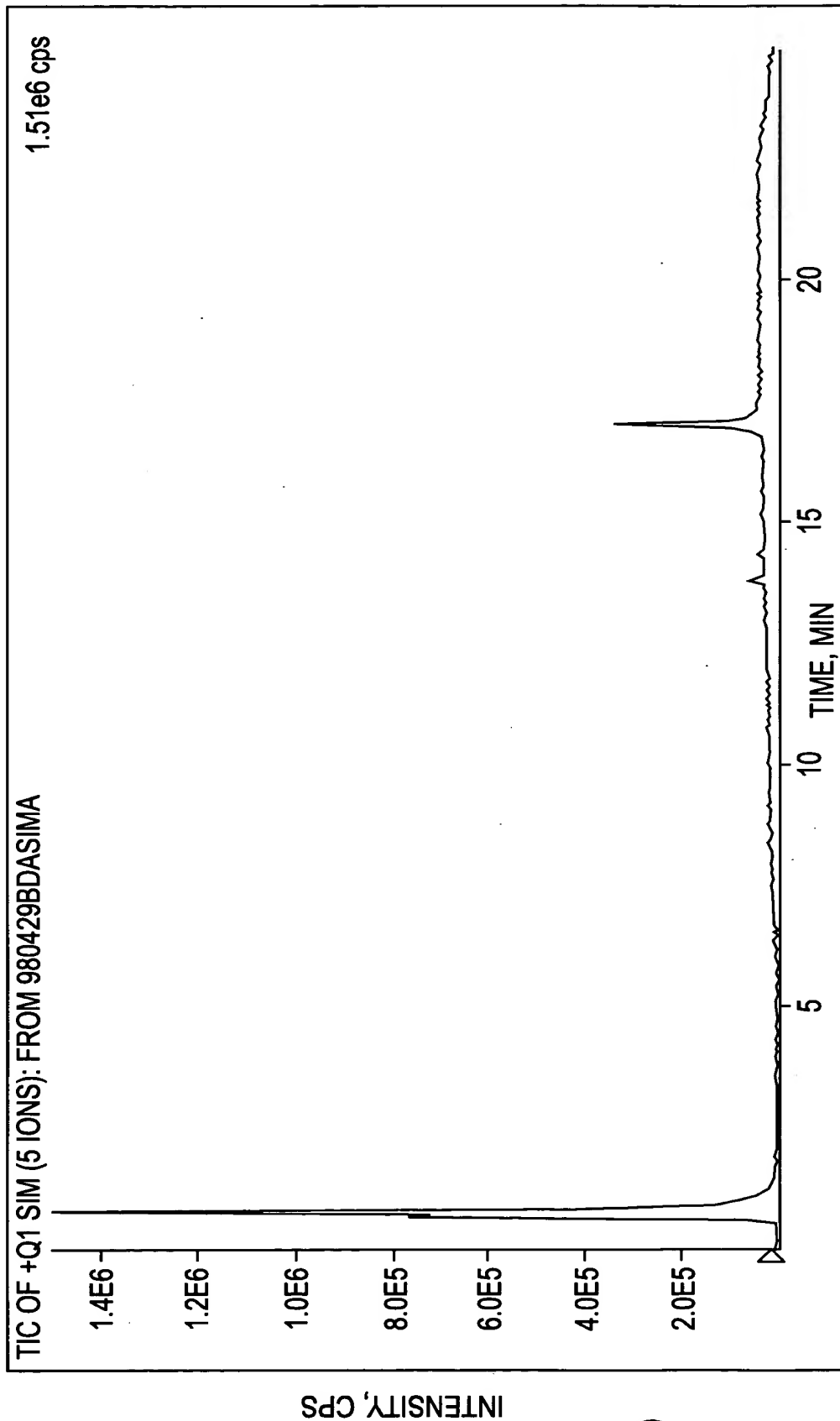


FIG. 49

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NATIONAL BUREAU OF STANDARDS AND IS LOANED TO YOUR
ORGANIZATION; IT AND ITS CONTENTS ARE NOT TO BE
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APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
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TIC OF +Q1 SIM (5 IONS): FROM 980429BDASIMA

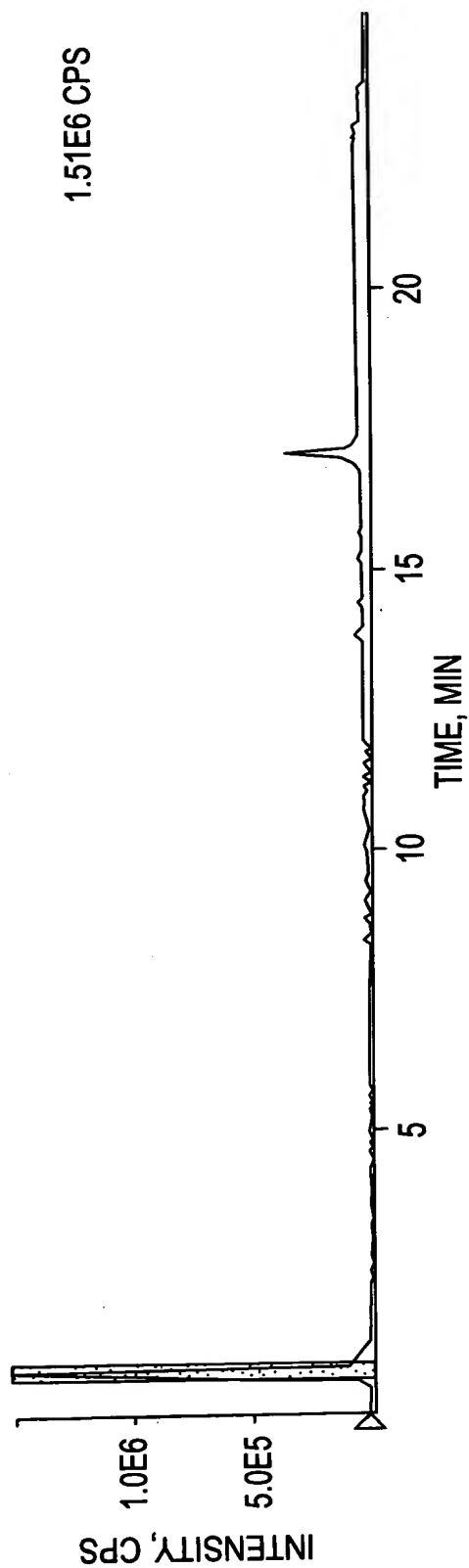


FIG. 50

... ..

APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

+Q1 SIM (5 IONS): 0.77 MIN (21 SCANS) FROM 980429BDASIMA

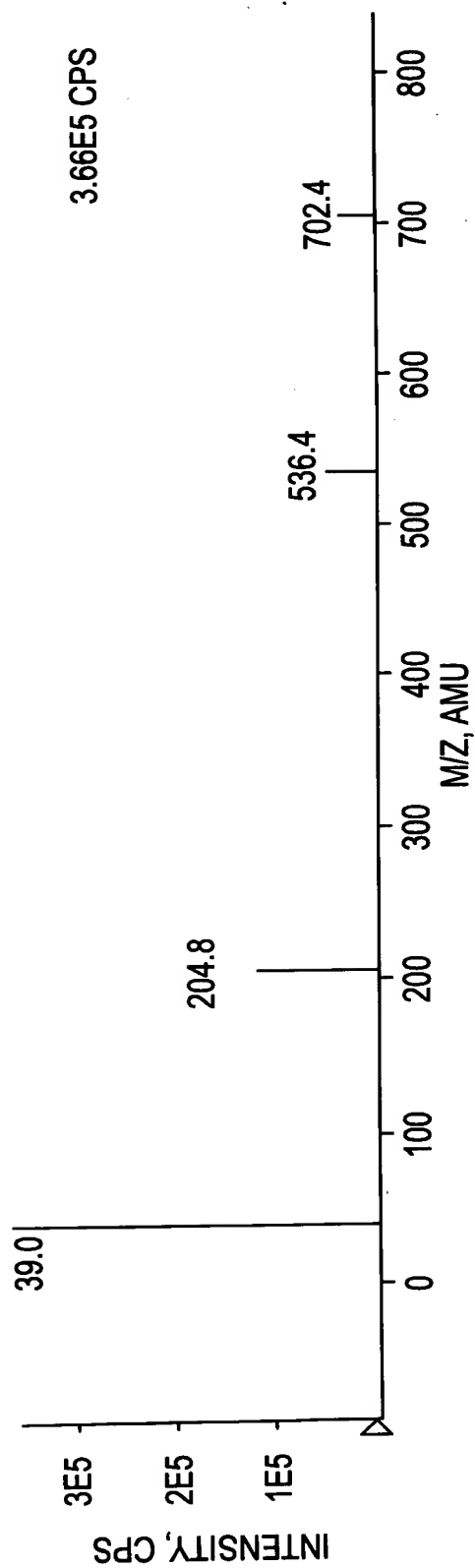


FIG. 51

APPROVED	FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

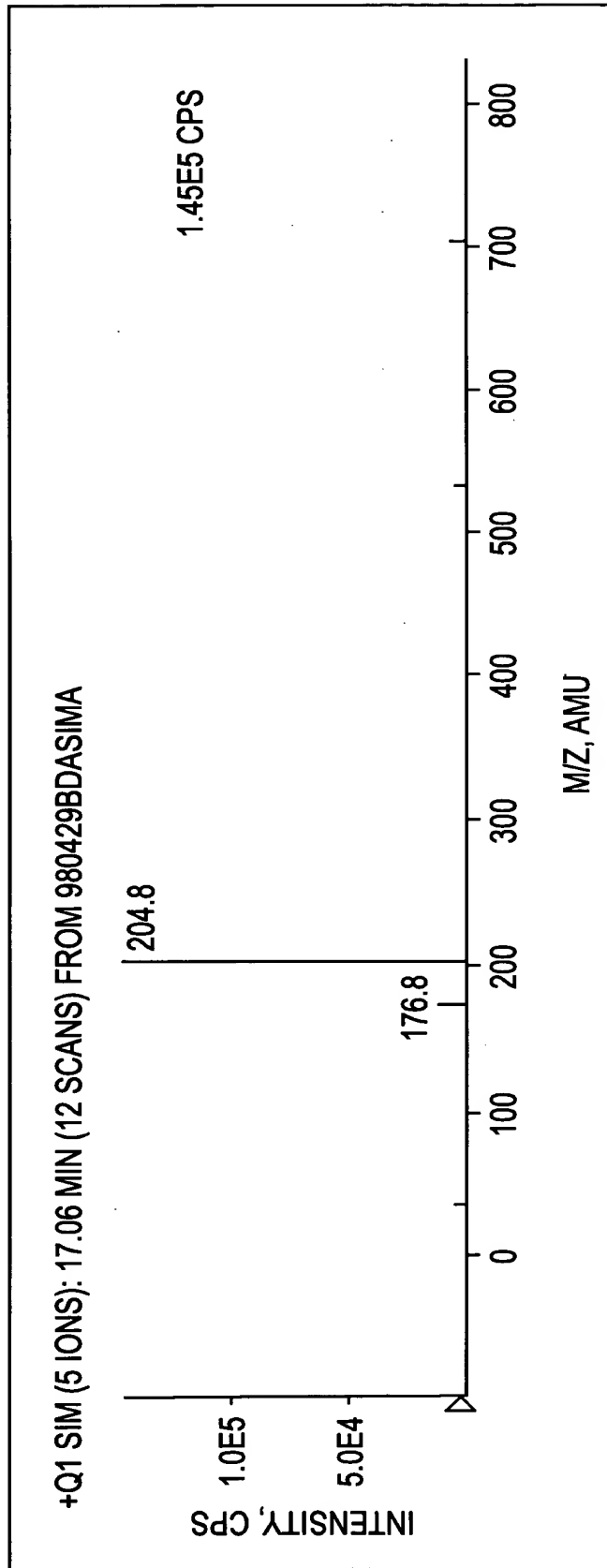


FIG. 53

17.06 MIN (12 SCANS) FROM 980429BDASIMA

APPROVED	FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

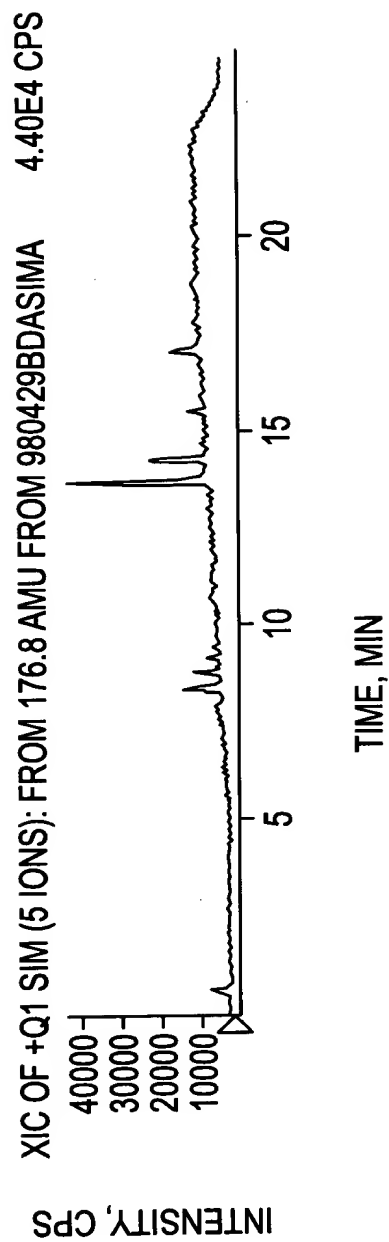


FIG. 54

... ..

APPROVED	FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

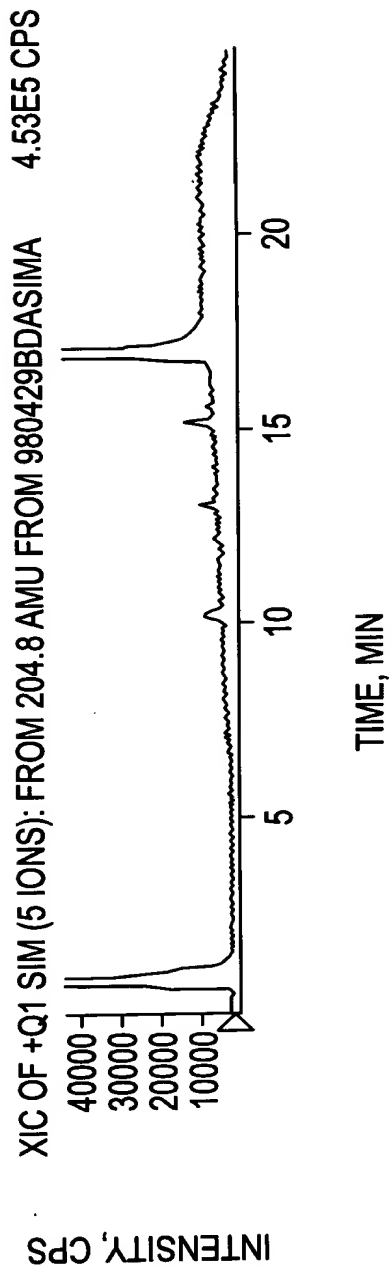


FIG. 55

APPROVED	FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

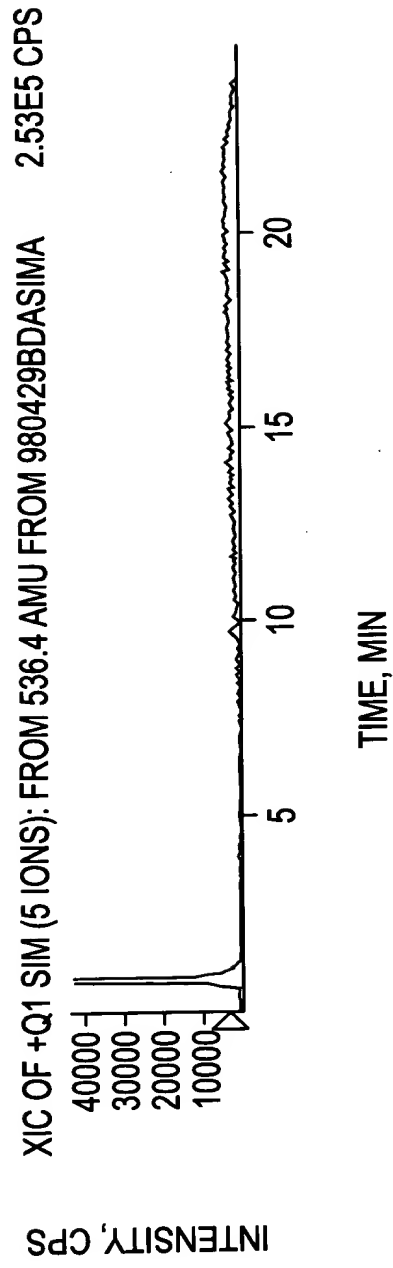


FIG. 56

APPROVED	C. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

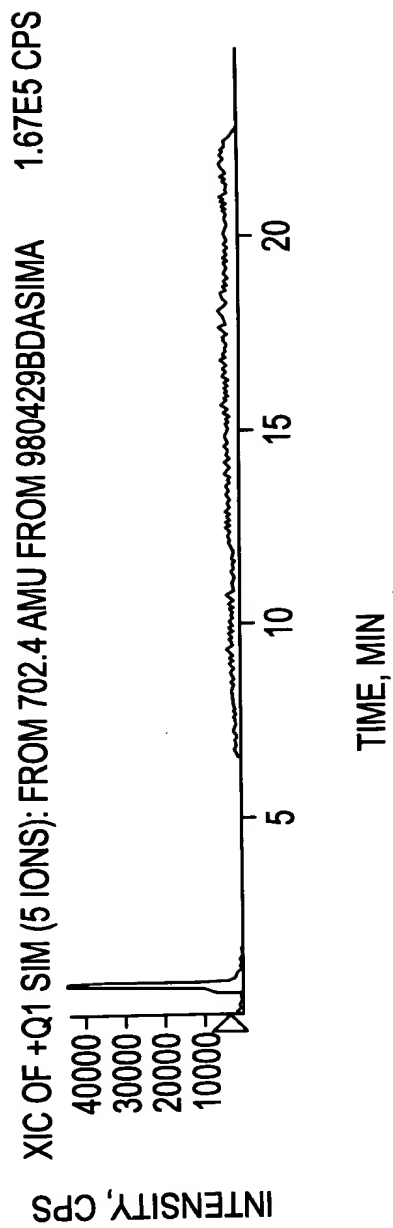


FIG. 57

APPROVED	FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

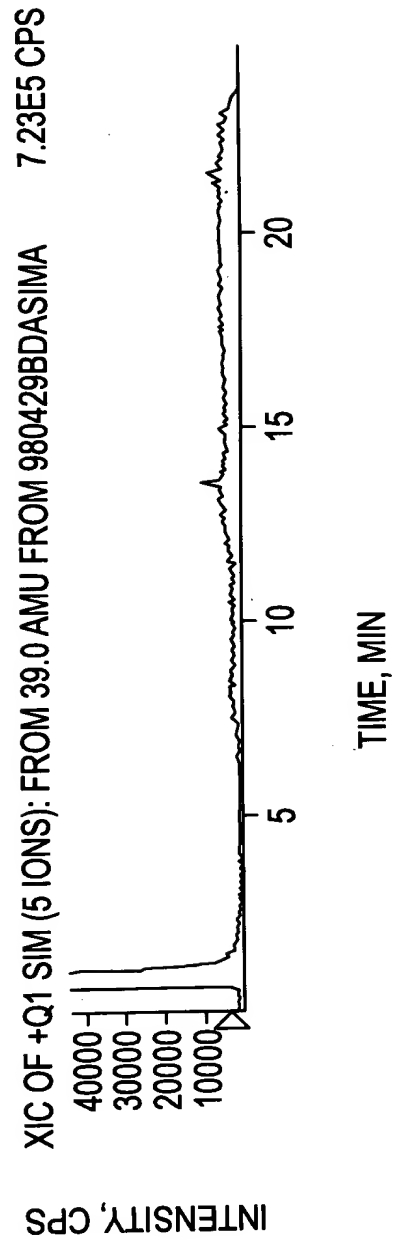


FIG. 58

APPROVED	C. S. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

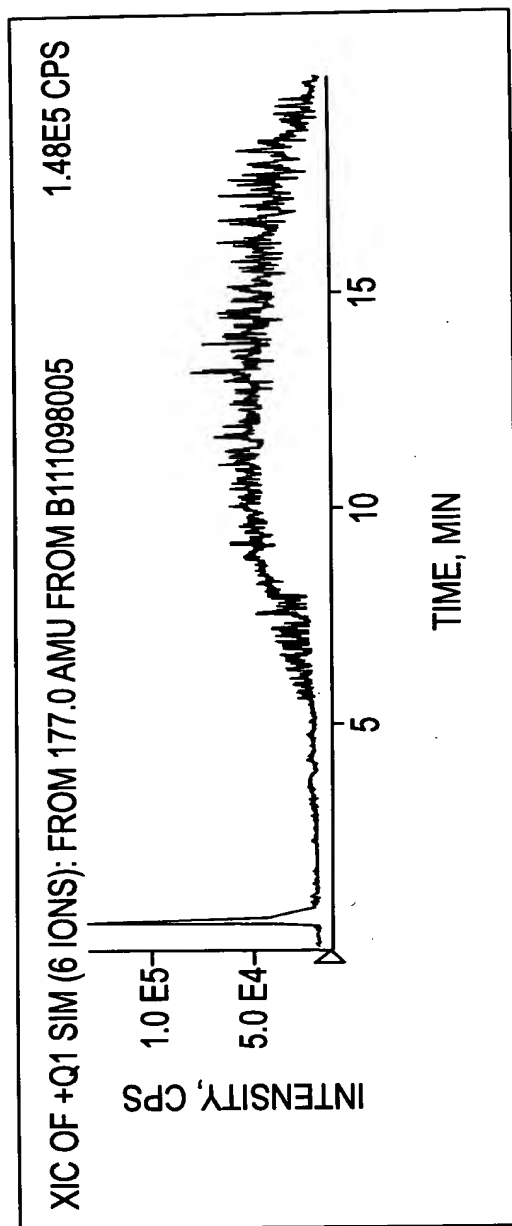


FIG. 59

APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

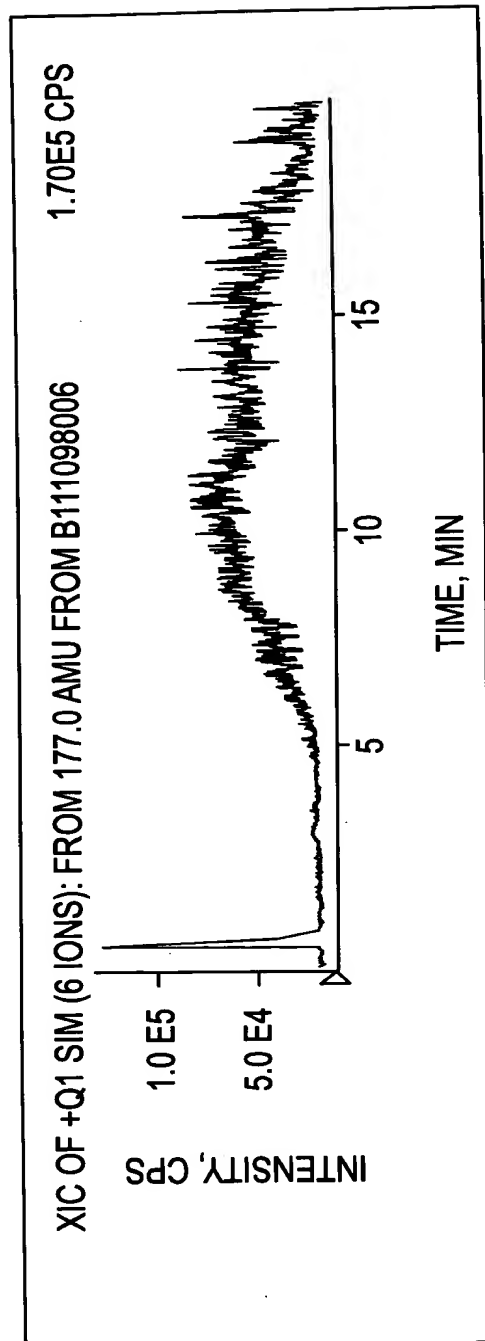


FIG. 60

11/11/2011 10:11:11 AM

APPROVED	FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

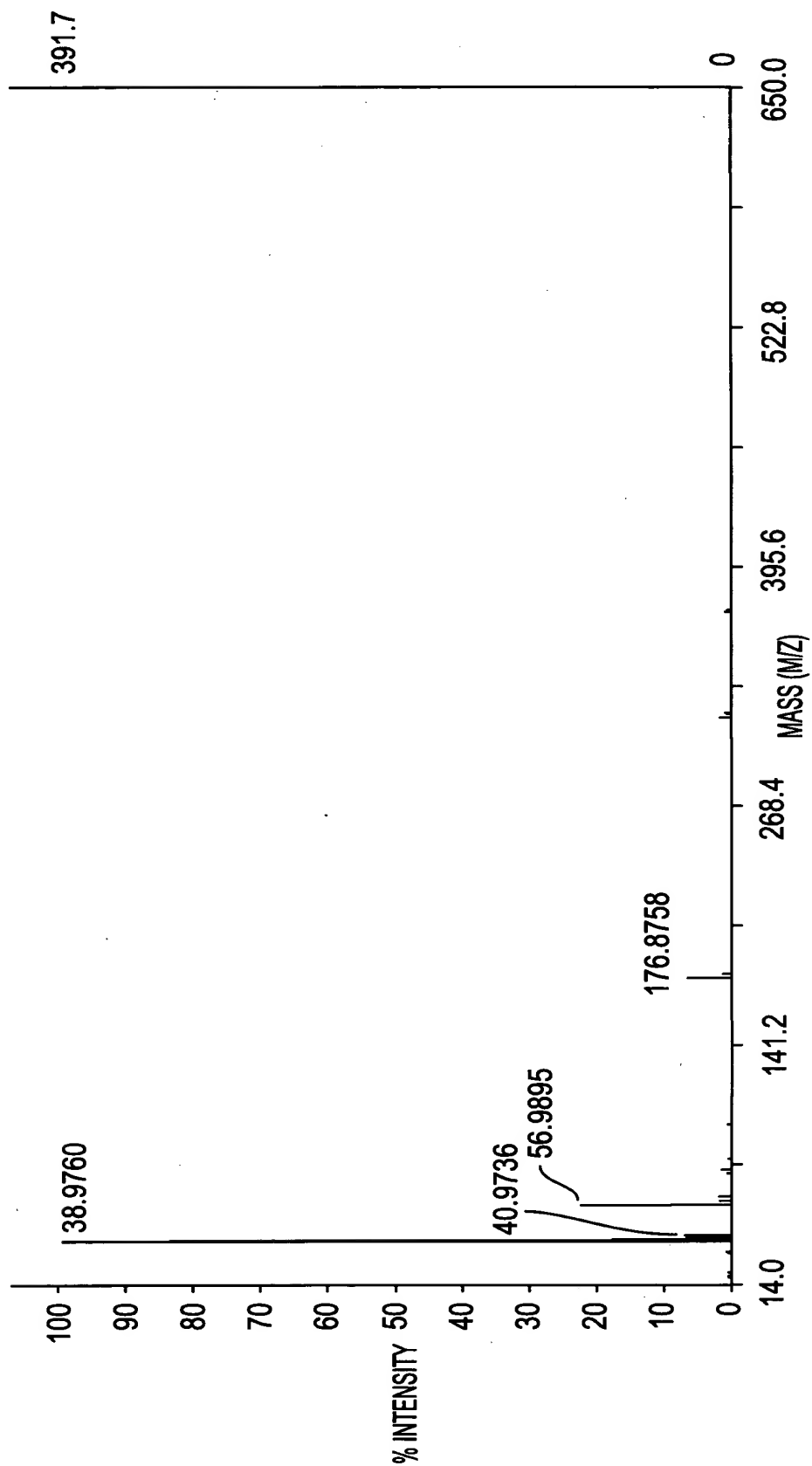


FIG. 63

THIS DOCUMENT CONTAINS NEITHER RECOMMENDATIONS NOR
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OR ADVISING ANY METHOD OF OPERATION

APPROVED	C. S. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

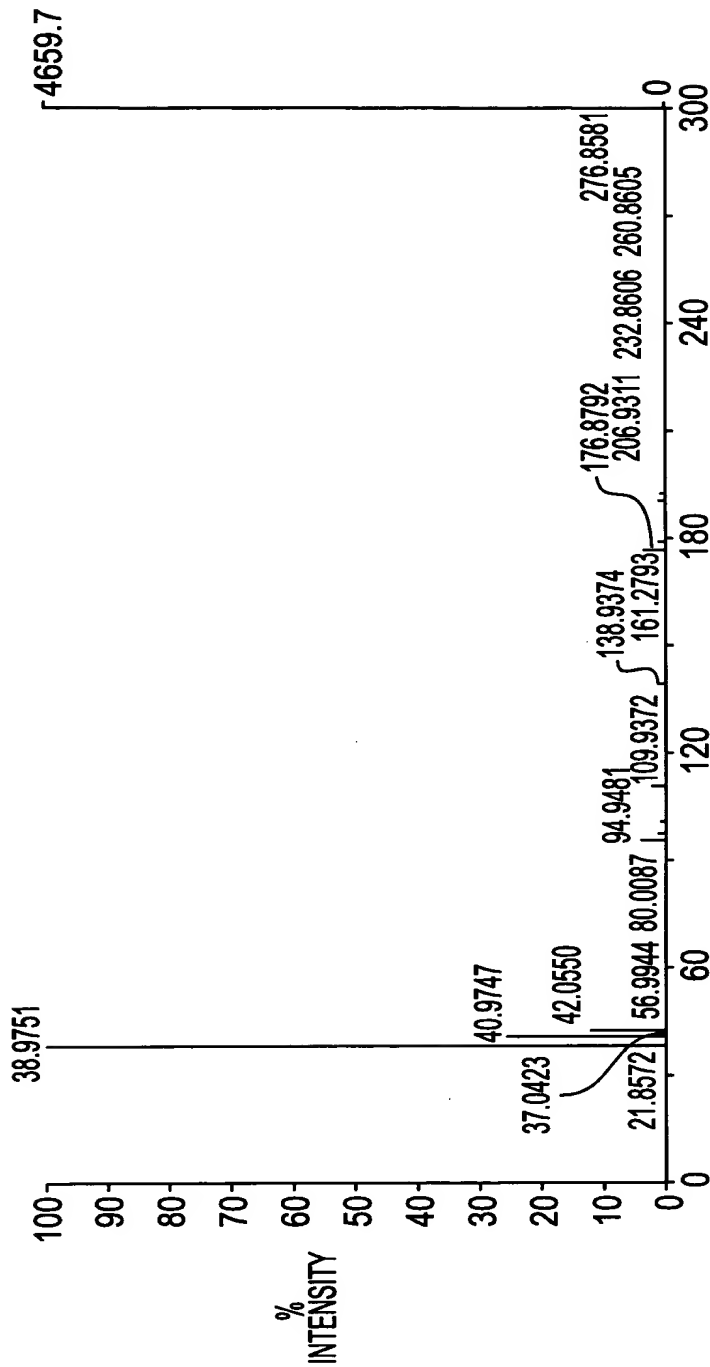


FIG. 64A

APPROVED	C.O. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



FIG.64B

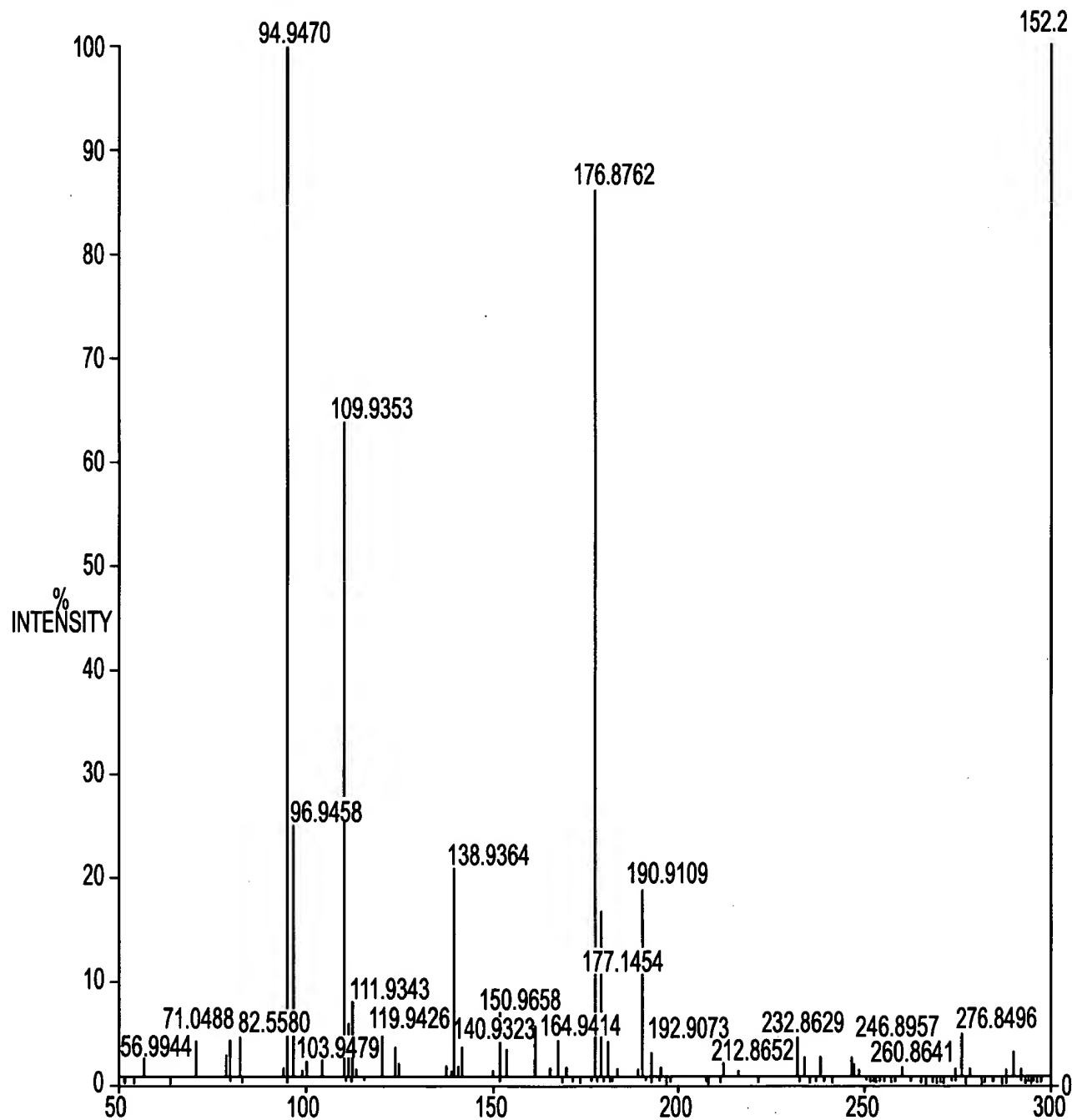


FIG.65

SCANNED

APPROVED	K. S. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

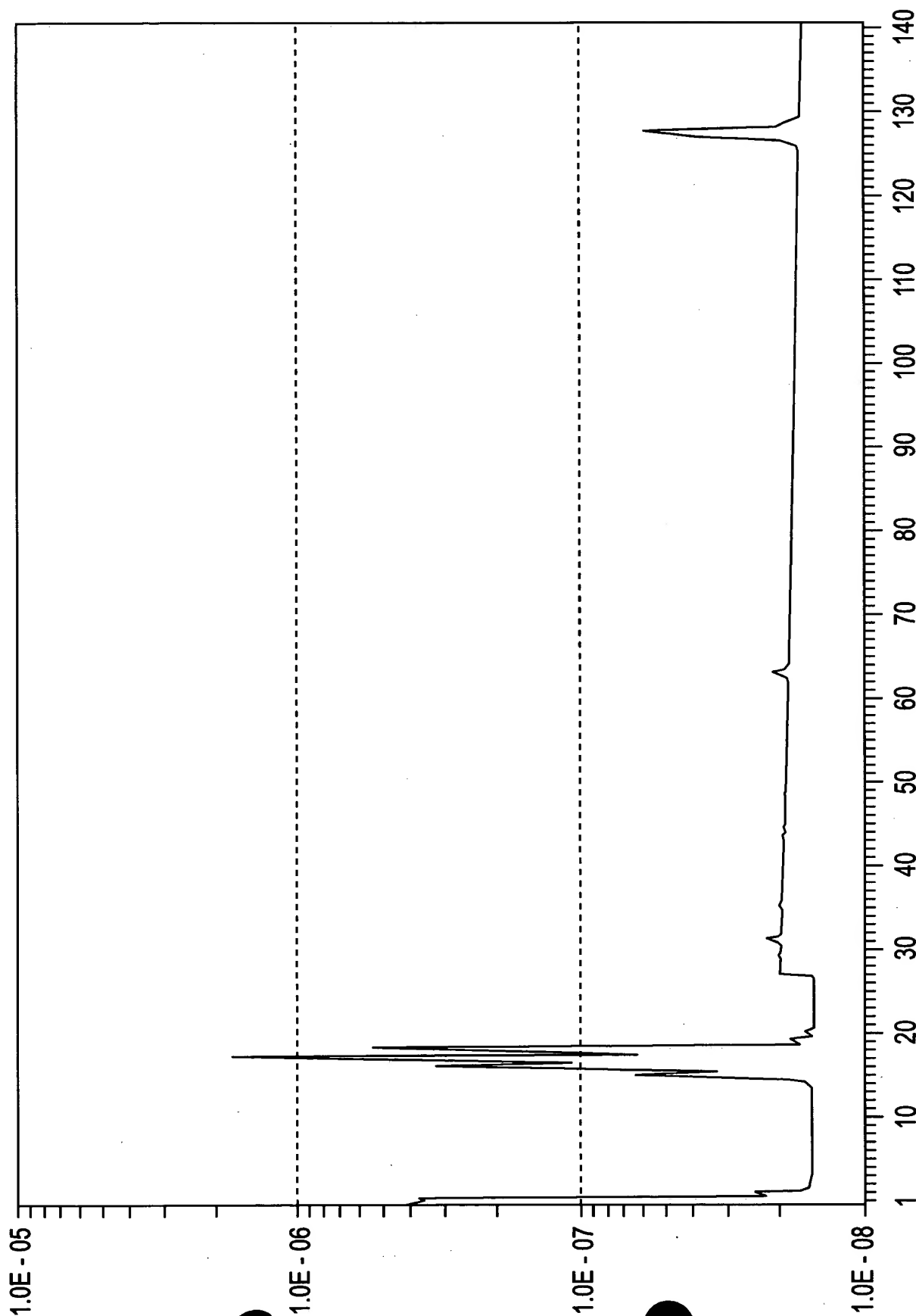


FIG. 66

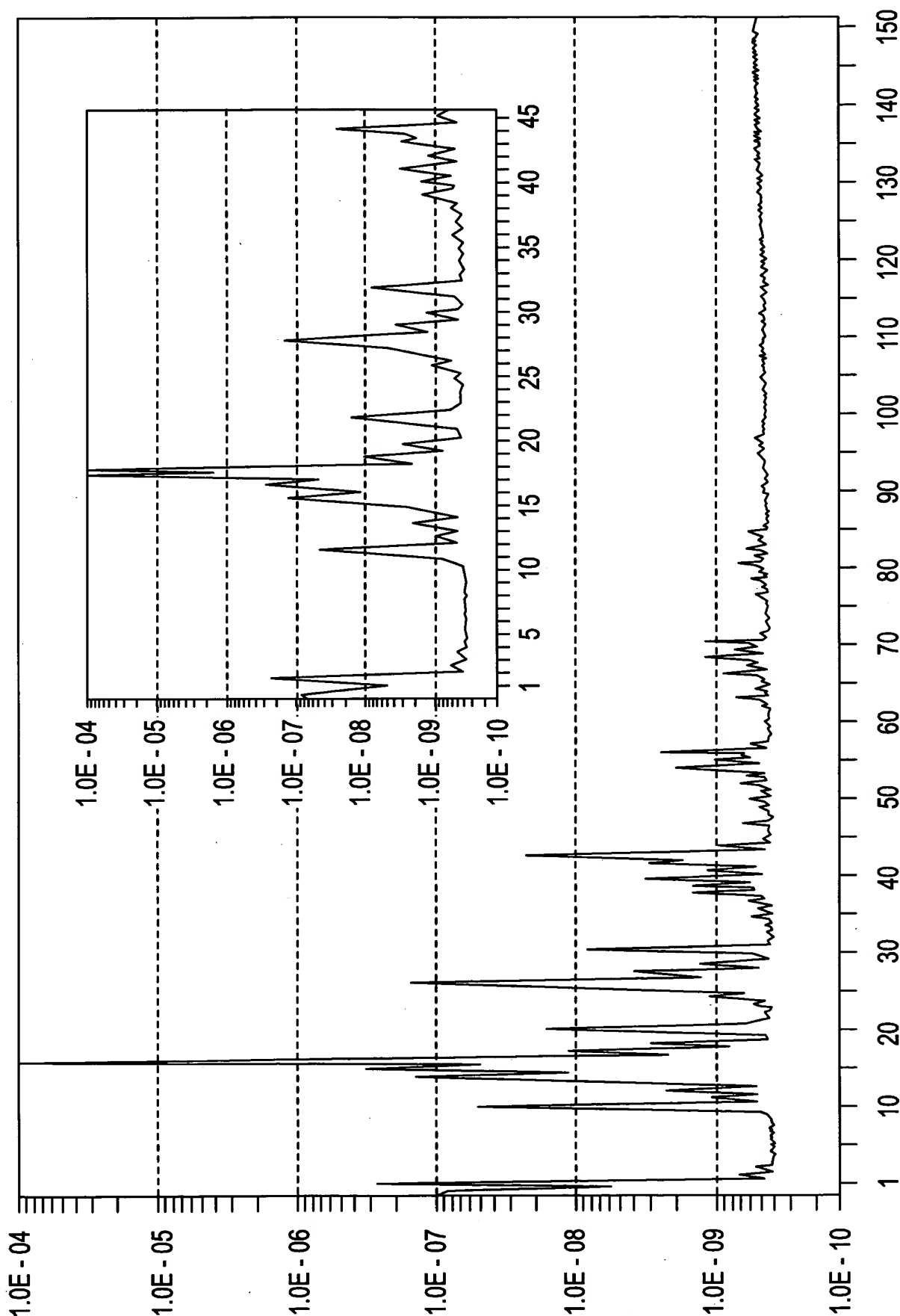


FIG. 67

APPROVED	FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

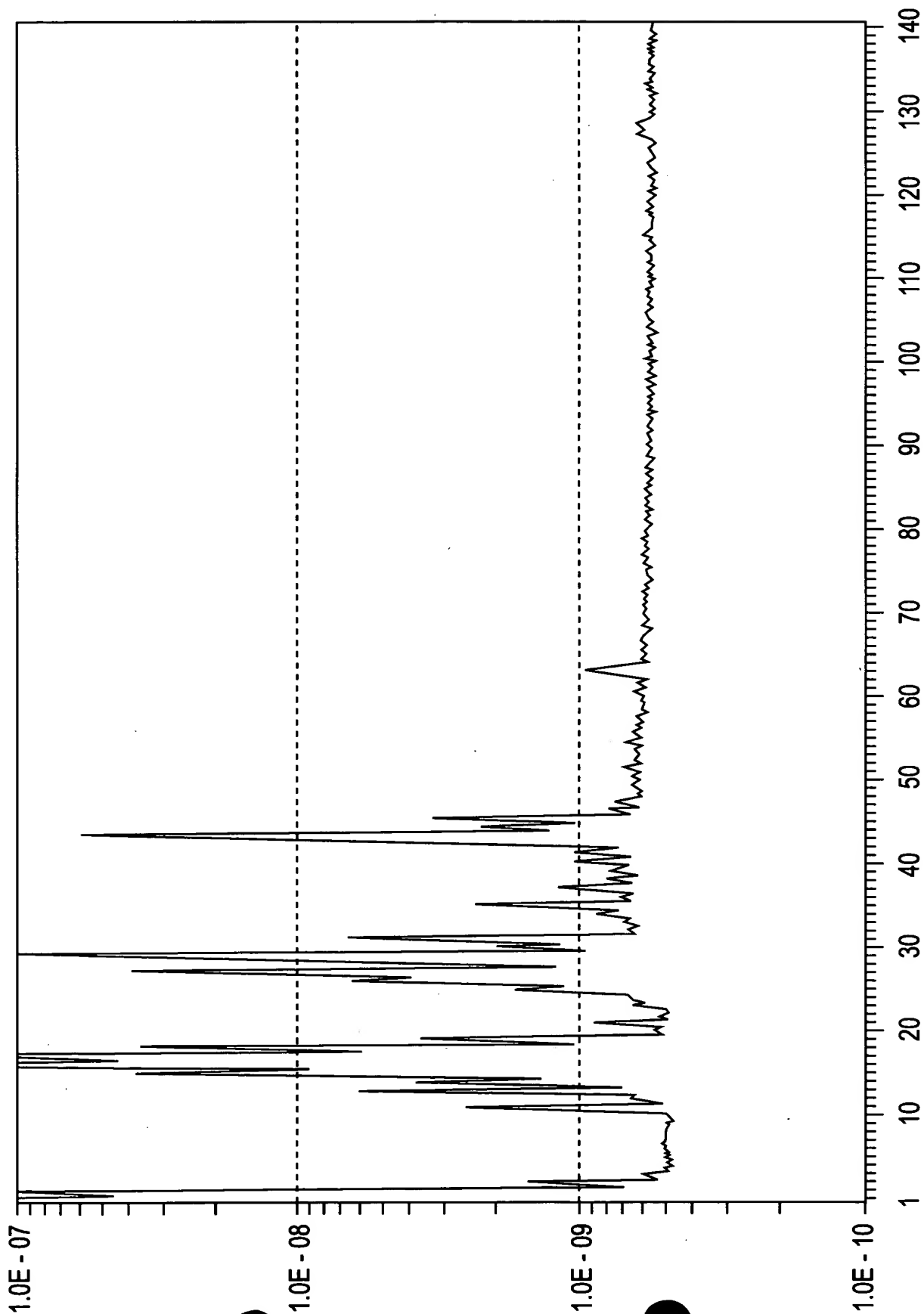


FIG. 68

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 AND IS NOT INTENDED TO BE USED IN LEGAL PROCEEDINGS

APPROVED	FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

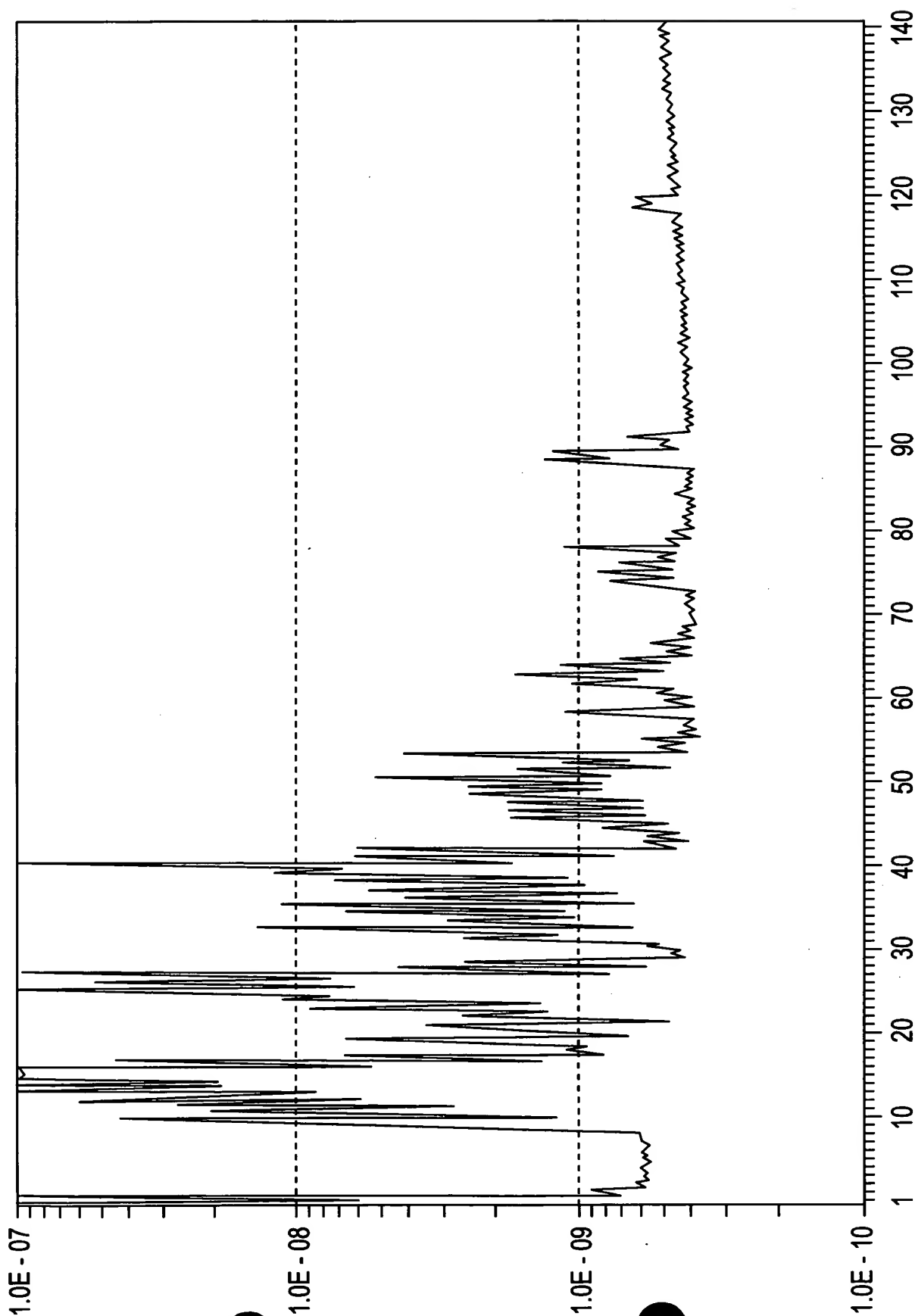


FIG. 69

THIS DOCUMENT CONTAINS NEITHER RECOMMENDATIONS NOR
 CONCLUSIONS OF THE NATIONAL BUREAU OF STANDARDS
 AND IS NOT INTENDED TO BE USED IN LEGAL PROCEEDINGS

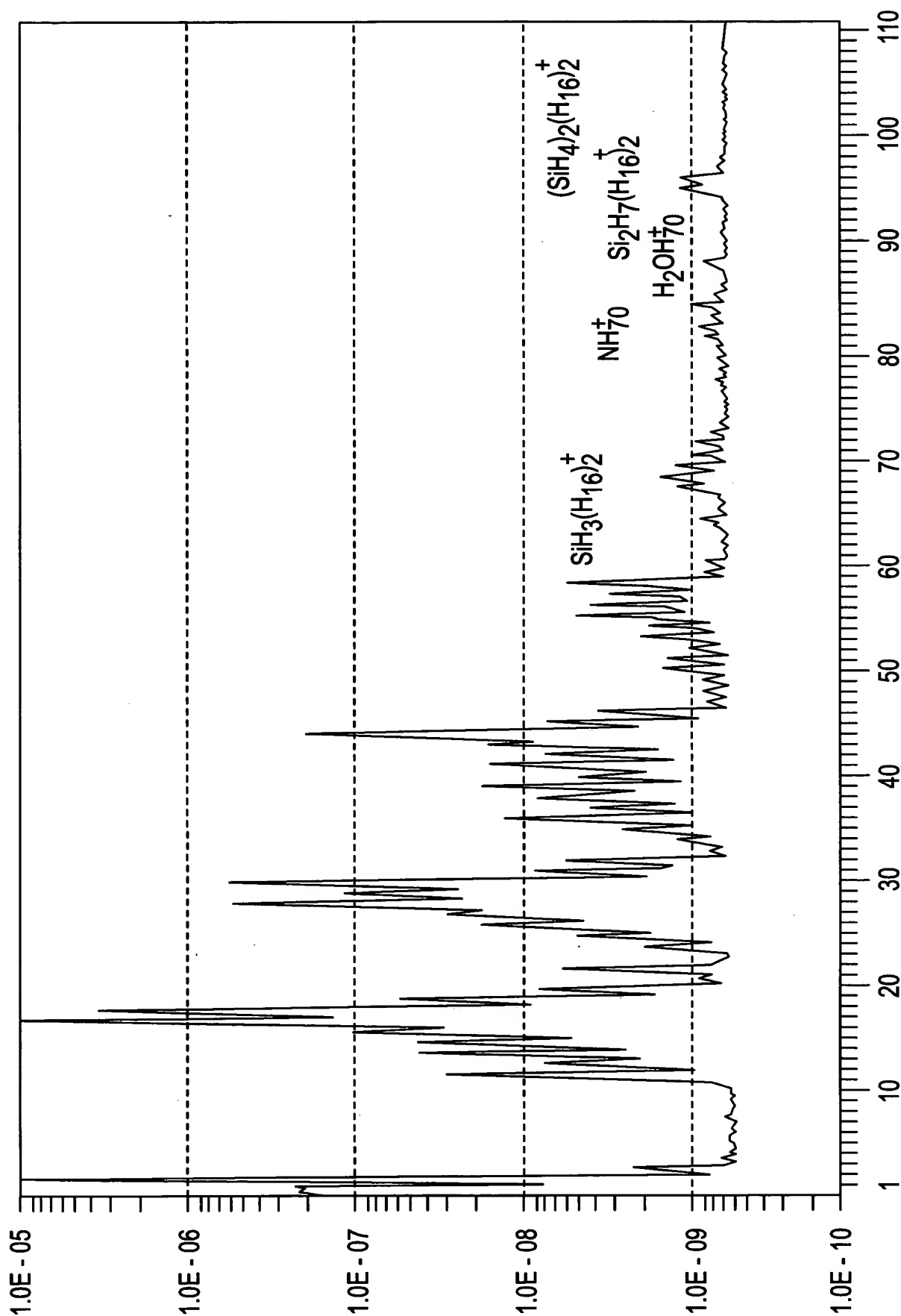


FIG. 70

APPROVED	C. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

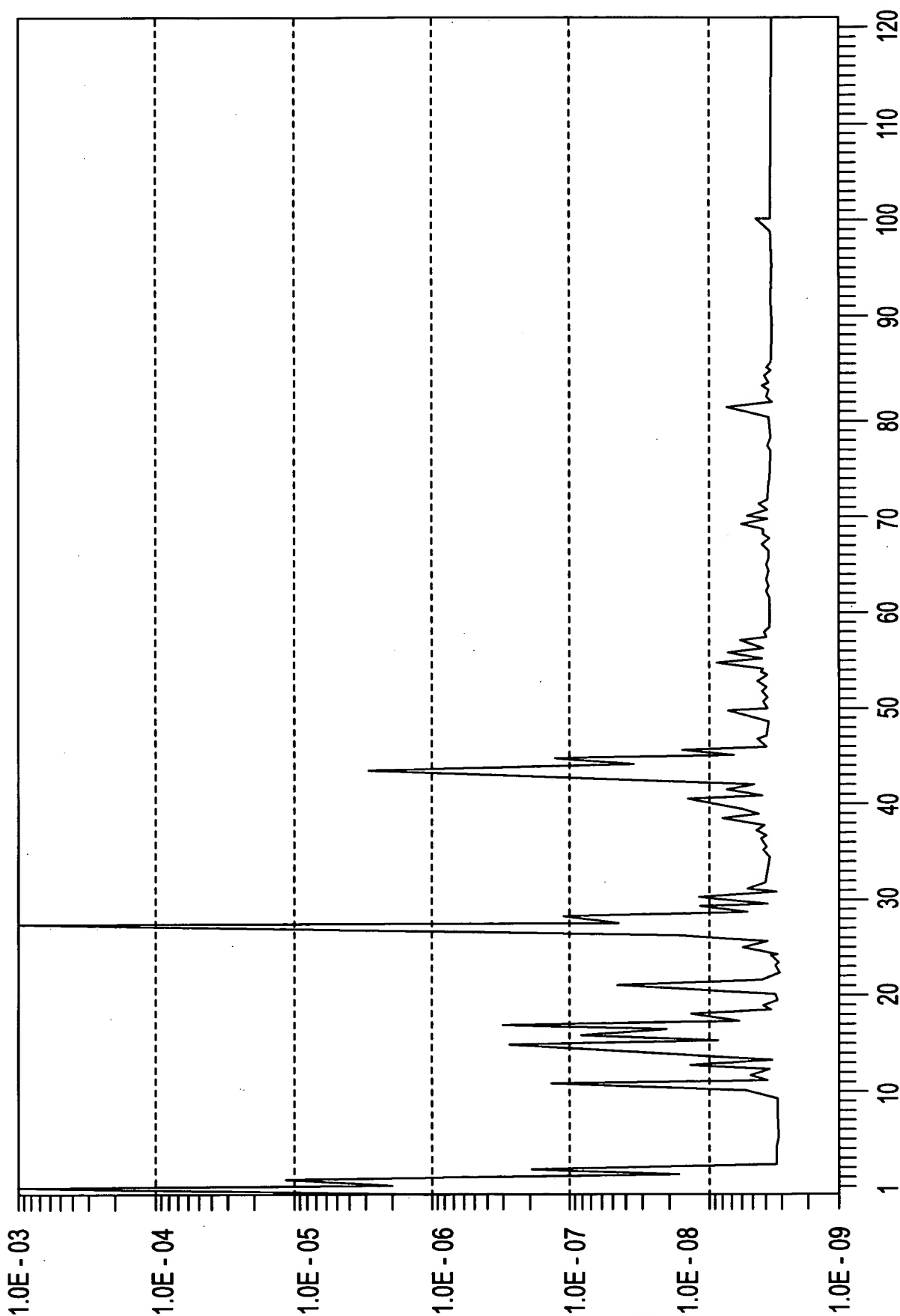


FIG. 71

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 CONCLUSIONS OF THE NATIONAL BUREAU OF STANDARDS
 AND IS NOT INTENDED TO BE USED IN LEGAL PROCEEDINGS

APPROVED	FIG. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

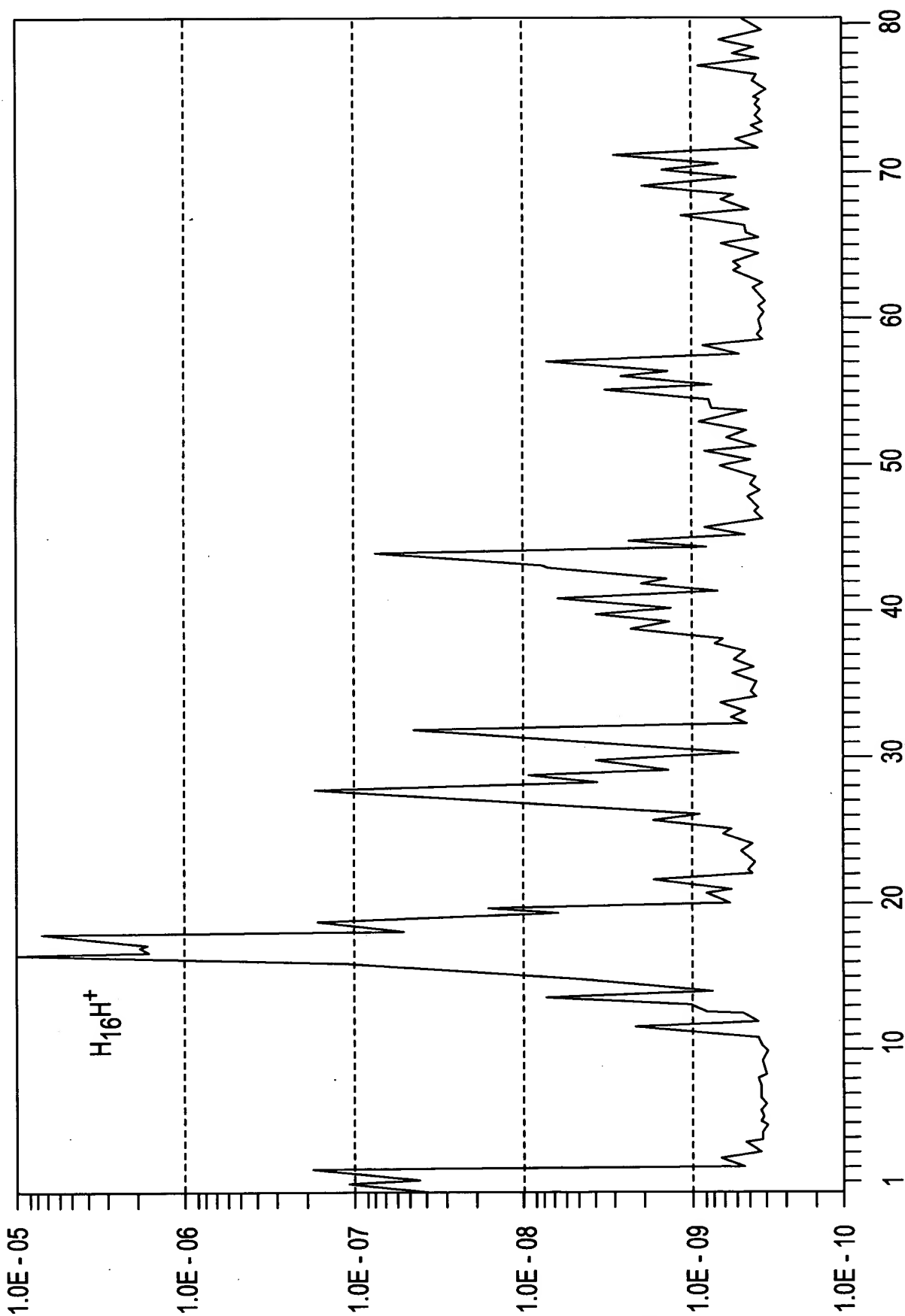


FIG. 72

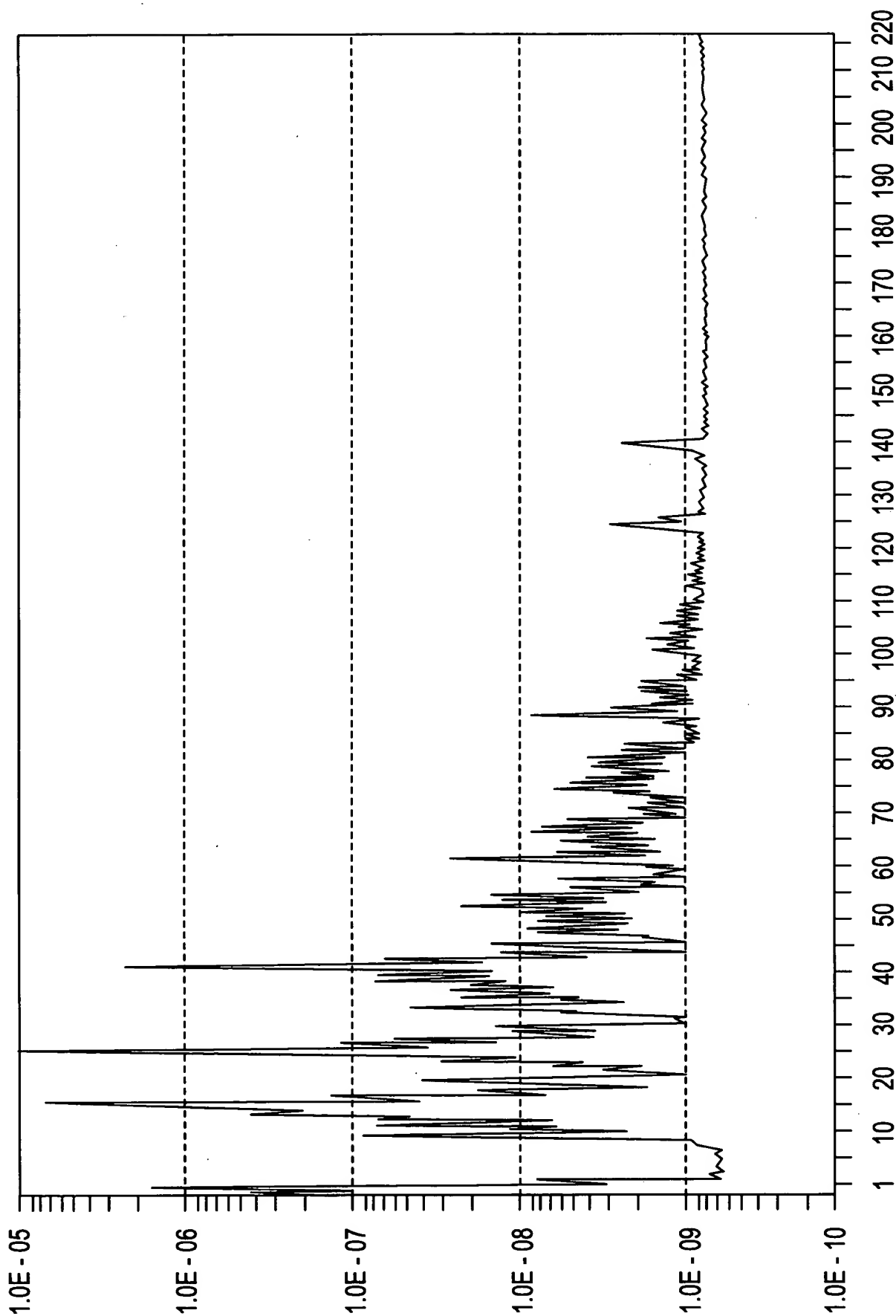


FIG. 73

[illegible]

APPROVED	FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

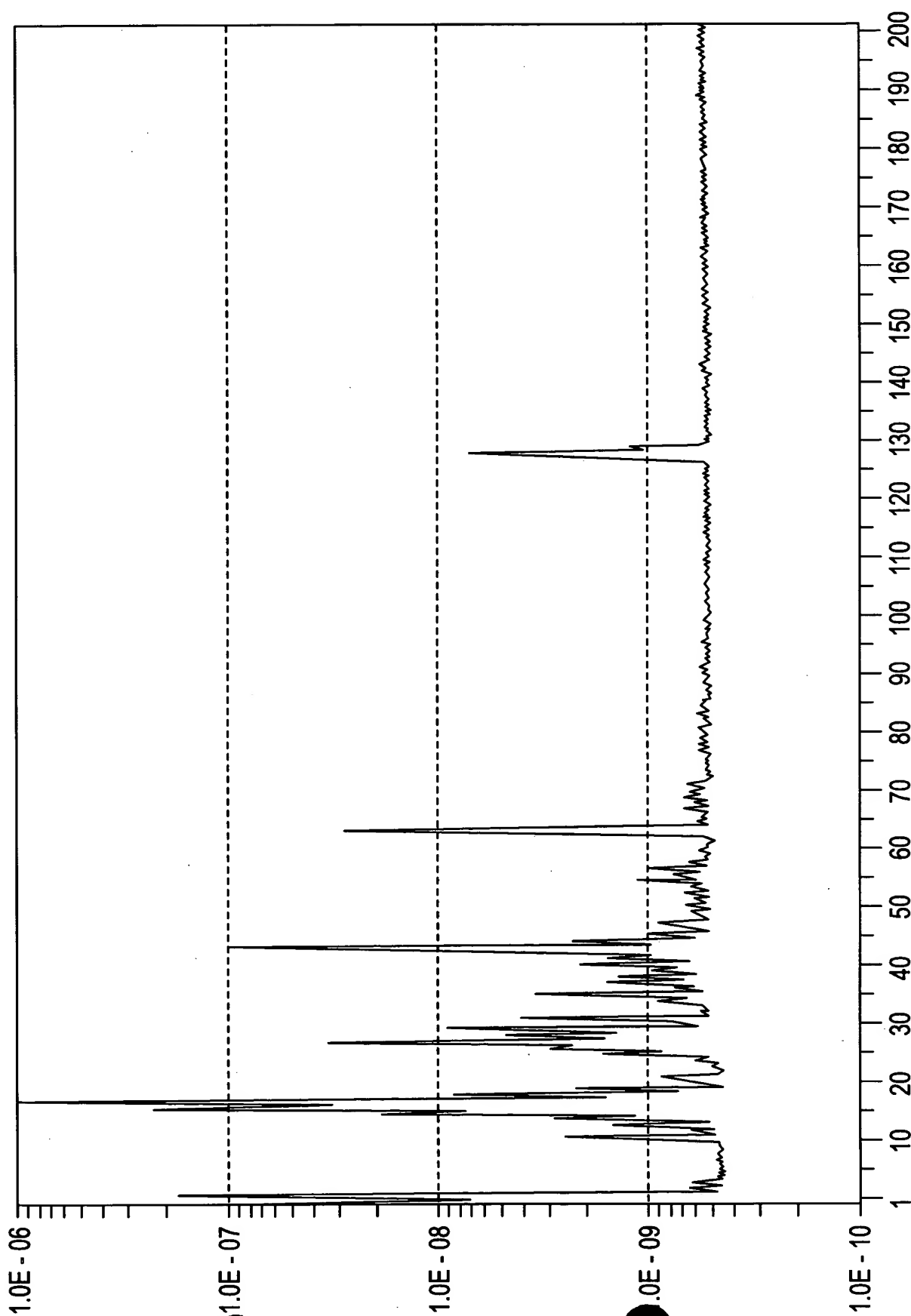


FIG. 75

THIS DOCUMENT CONTAINS NEITHER RECOMMENDATIONS NOR
 CONCLUSIONS OF THE NATIONAL BUREAU OF STANDARDS
 AND IS NOT INTENDED TO BE USED IN LEGAL PROCEEDINGS

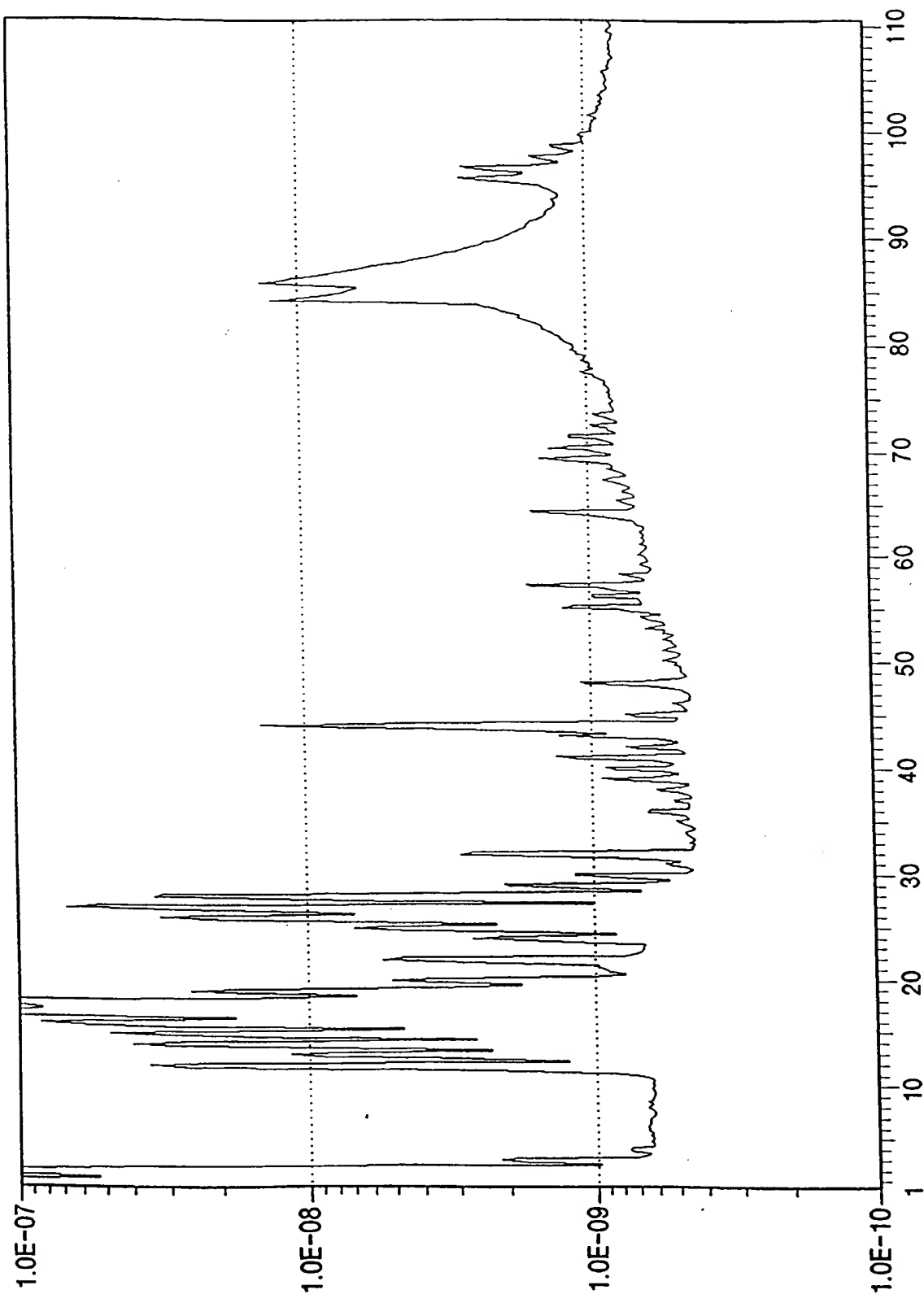


Fig. 76

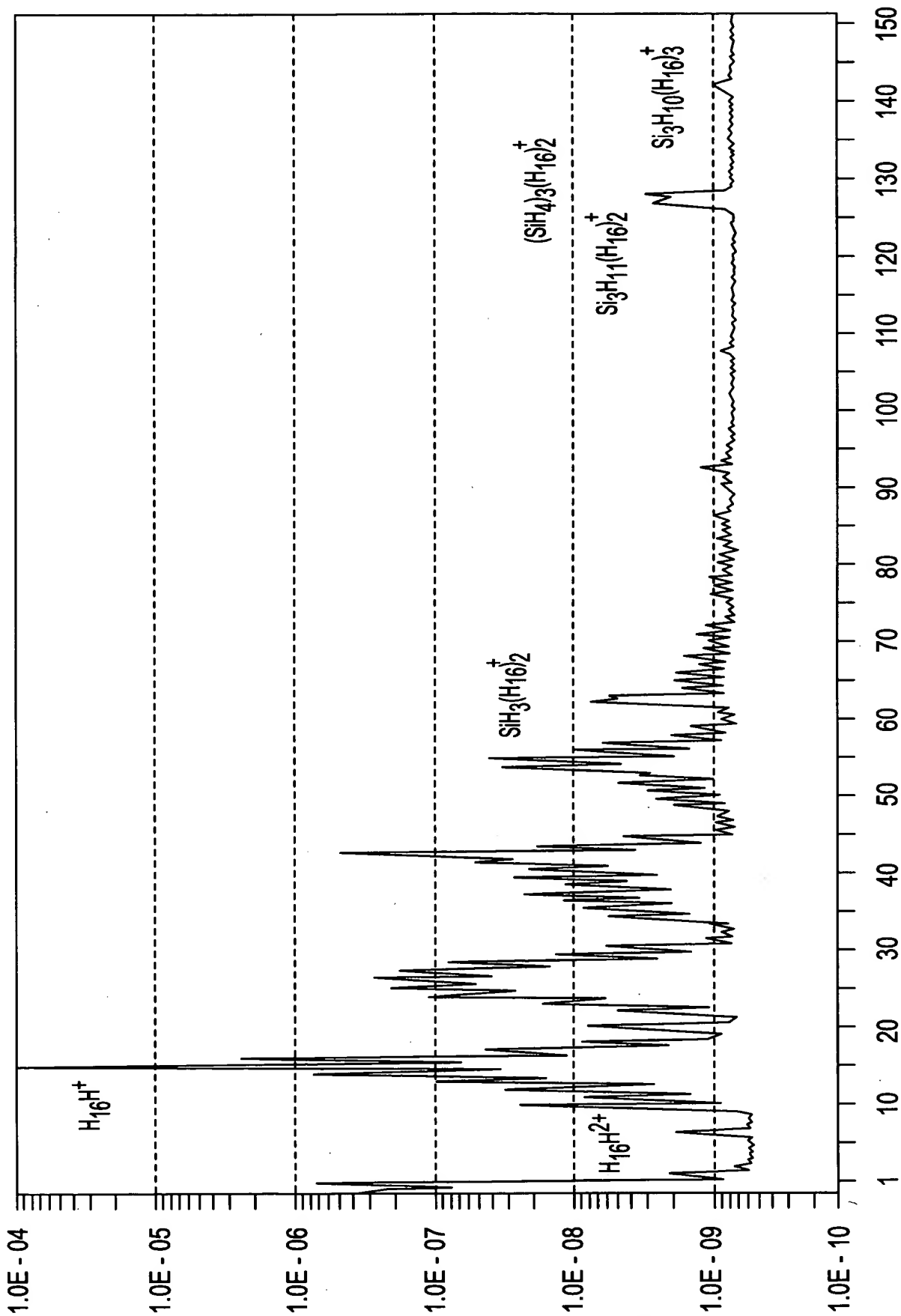


FIG. 77

THIS DOCUMENT CONTAINS NEITHER RECOMMENDATIONS NOR
 CONCLUSIONS OF THE NATIONAL BUREAU OF STANDARDS
 AND IS NOT INTENDED TO BE USED IN LEGAL PROCEEDINGS

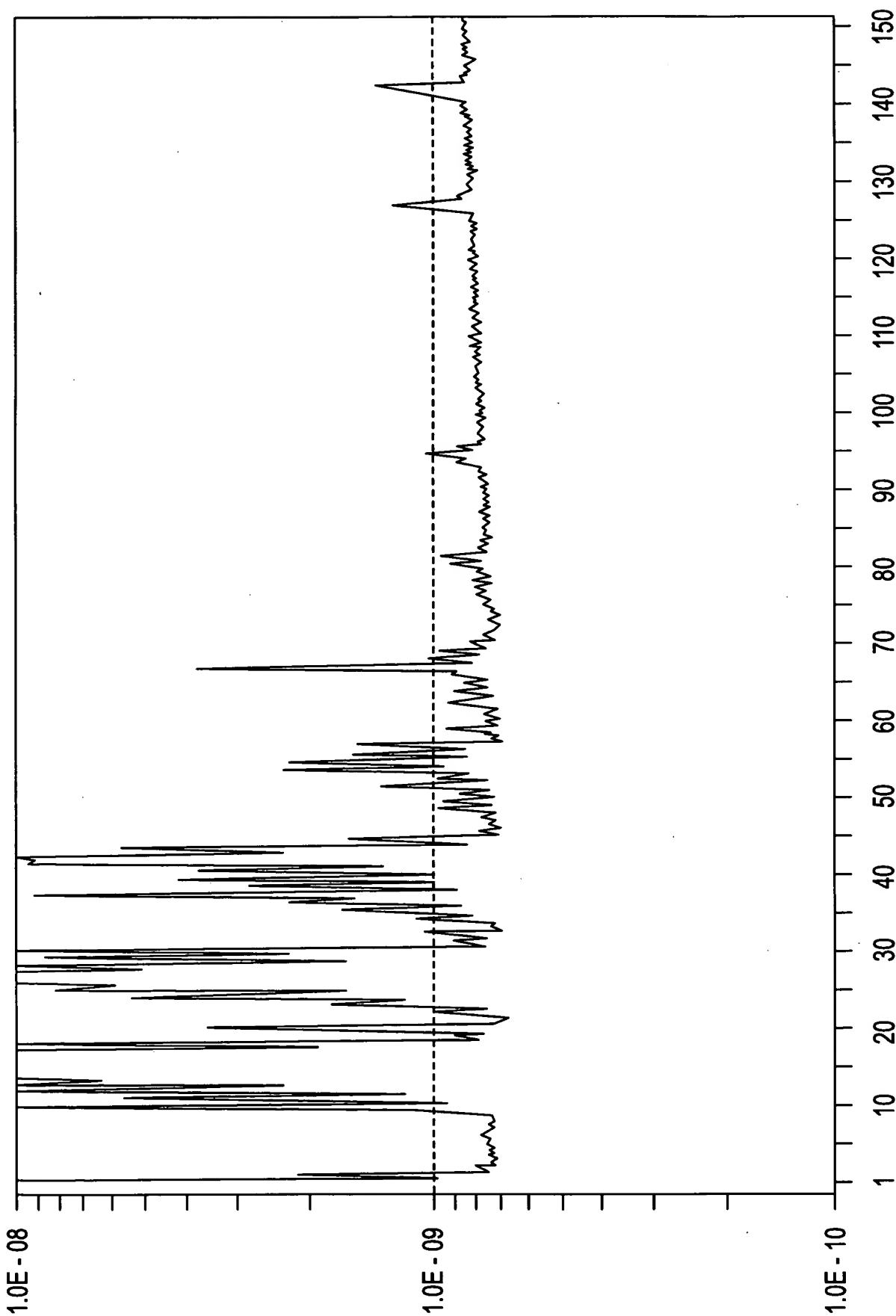


FIG. 78

THIS DOCUMENT CONTAINS NEITHER RECOMMENDATIONS NOR
 CONCLUSIONS OF THE NATIONAL BUREAU OF STANDARDS
 AND IS NOT INTENDED TO BE USED IN LEGAL PROCEEDINGS

APPROVED	C. S. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

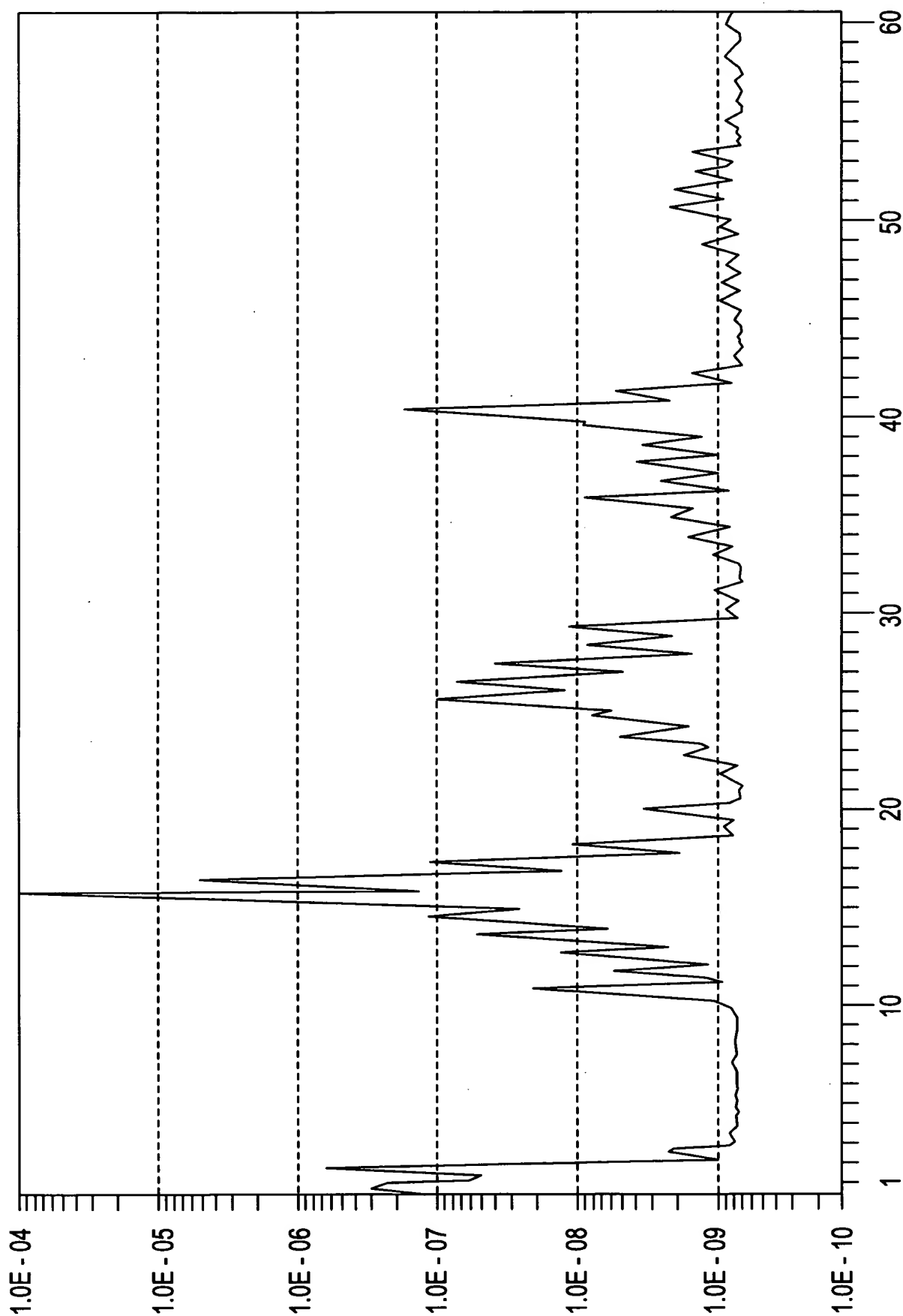


FIG. 79

... ..

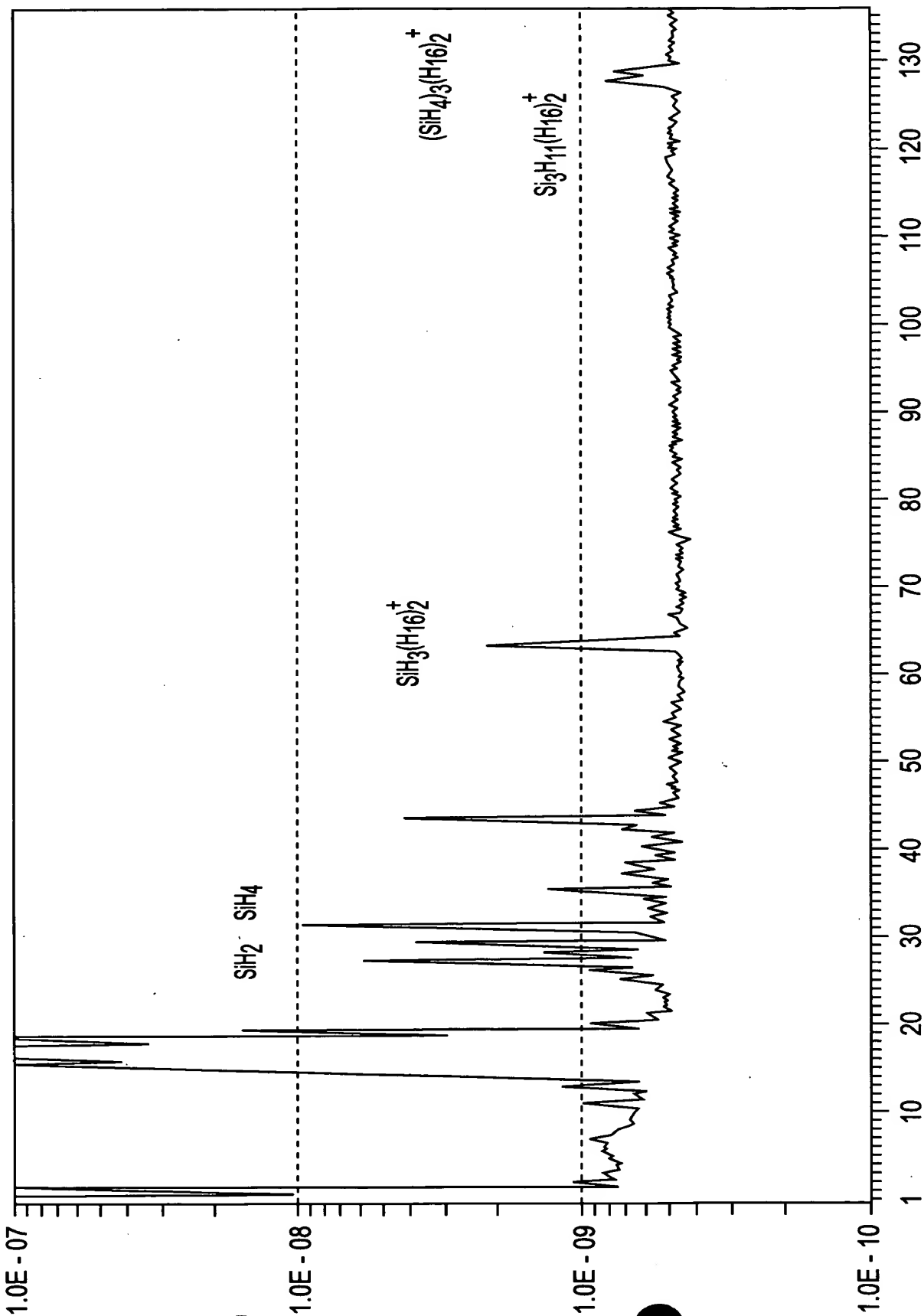


FIG. 80

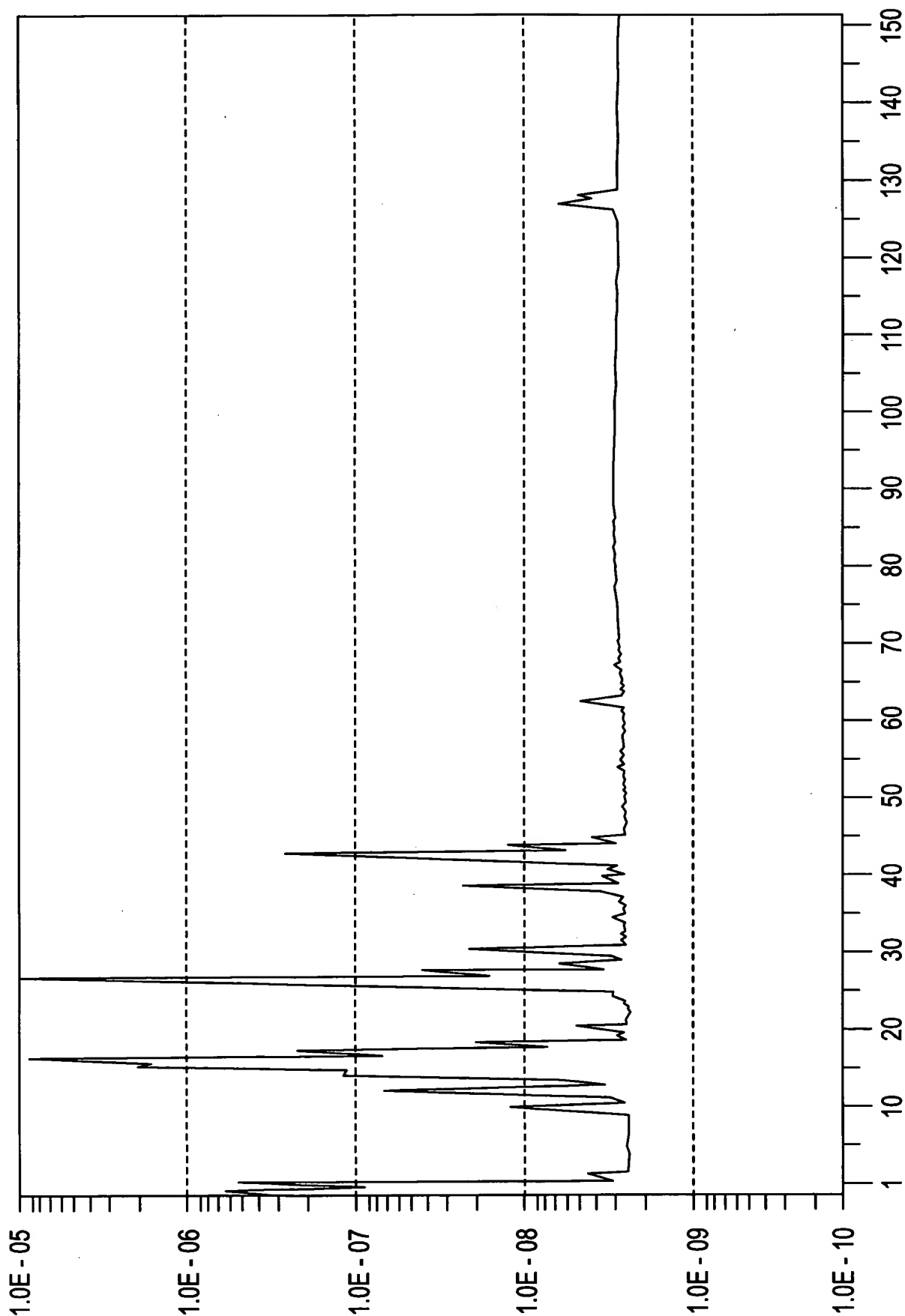


FIG. 81

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APPROVED	C. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

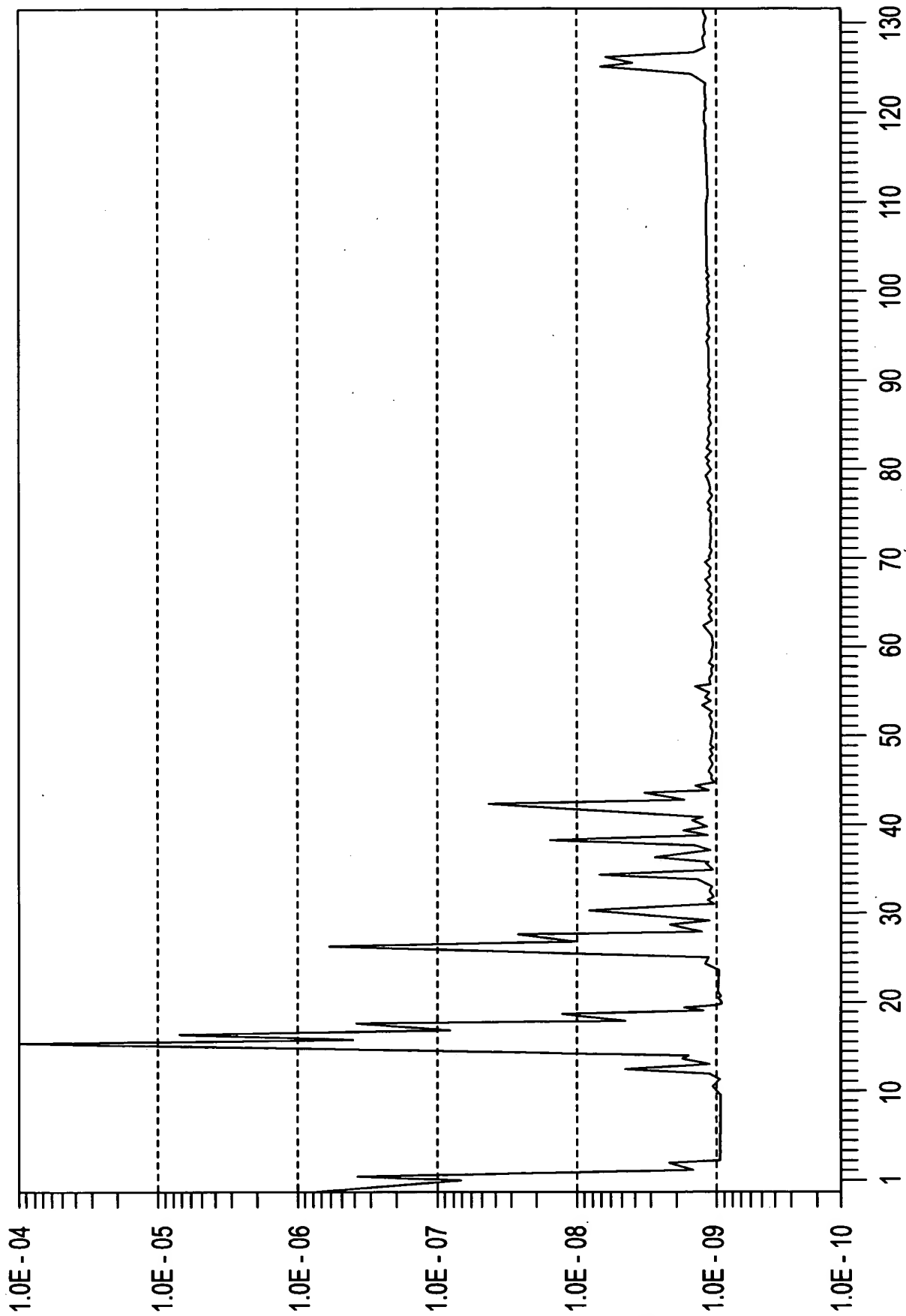


FIG. 82

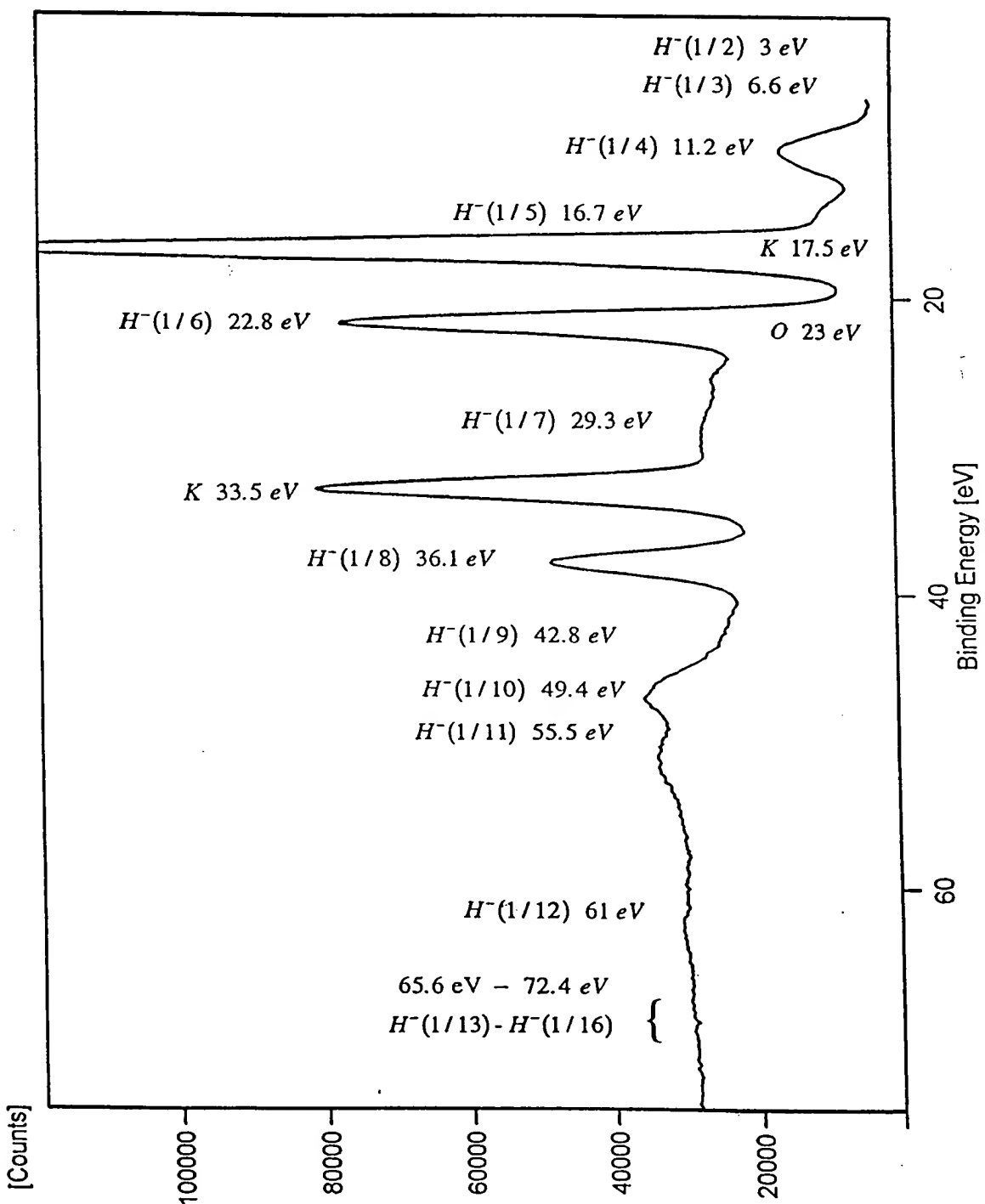


Fig. 83

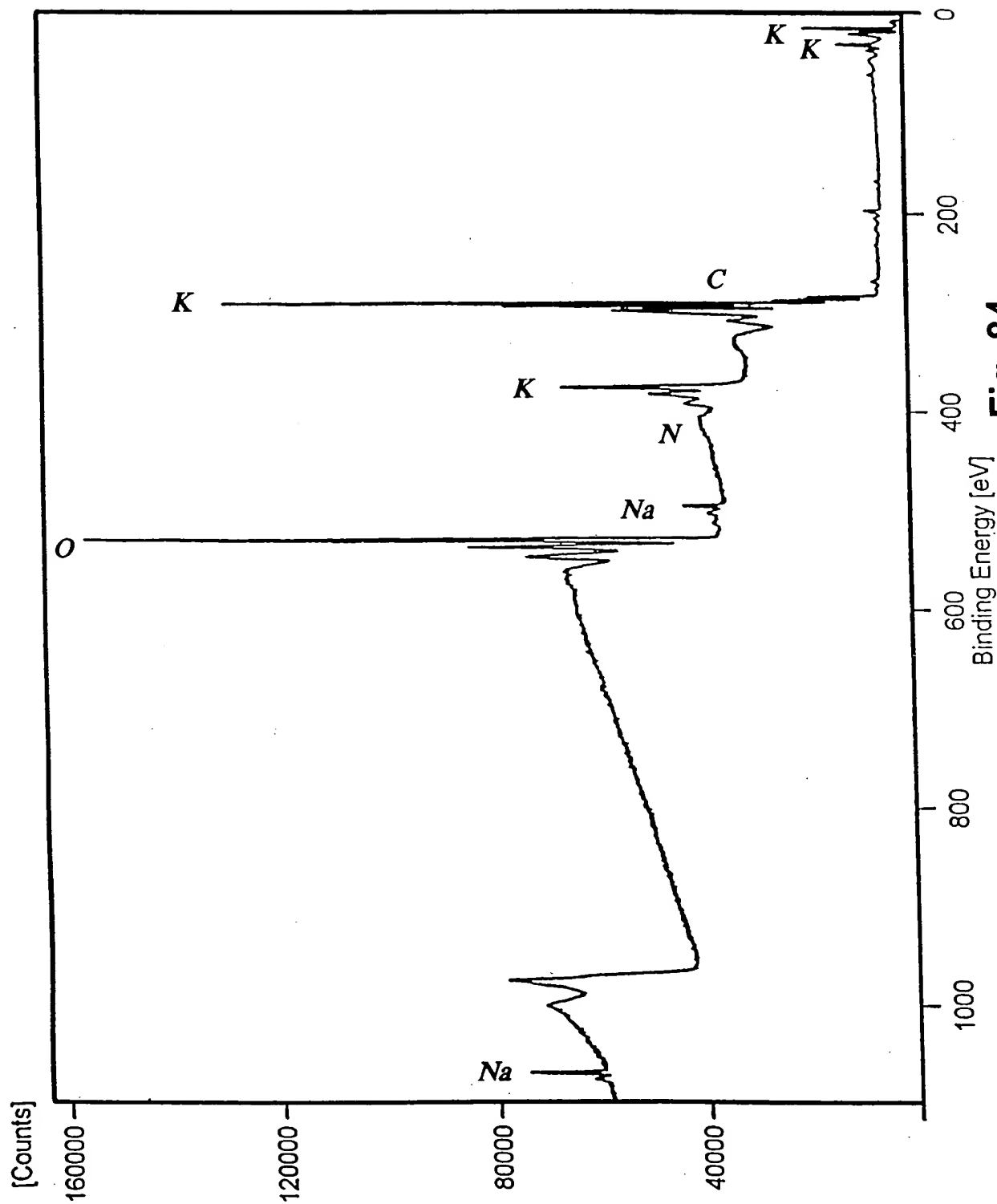


Fig. 84

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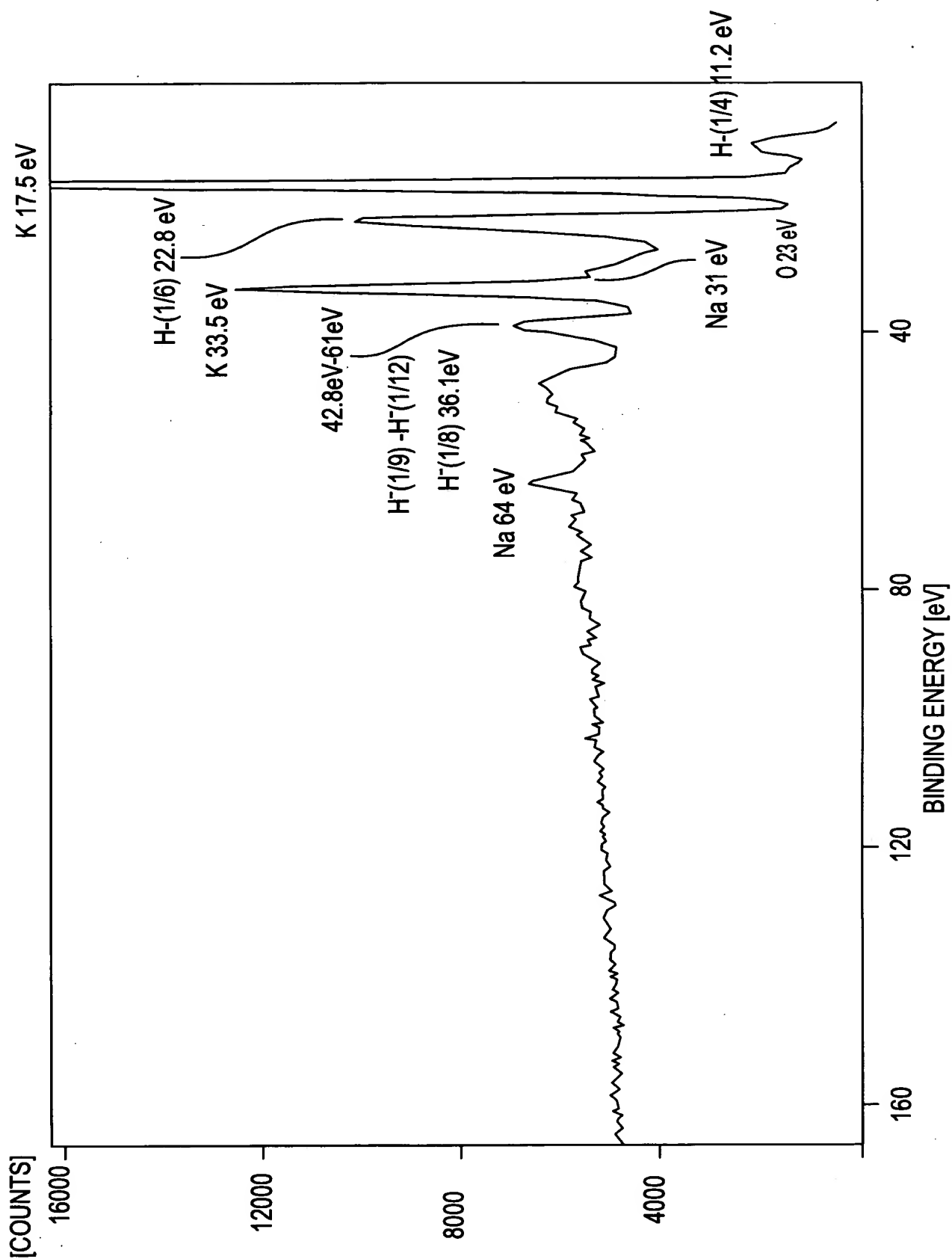
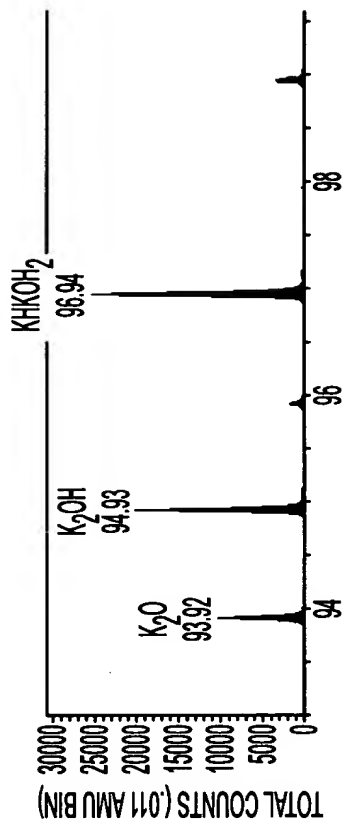


FIG. 85

APPROVED	C. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 86



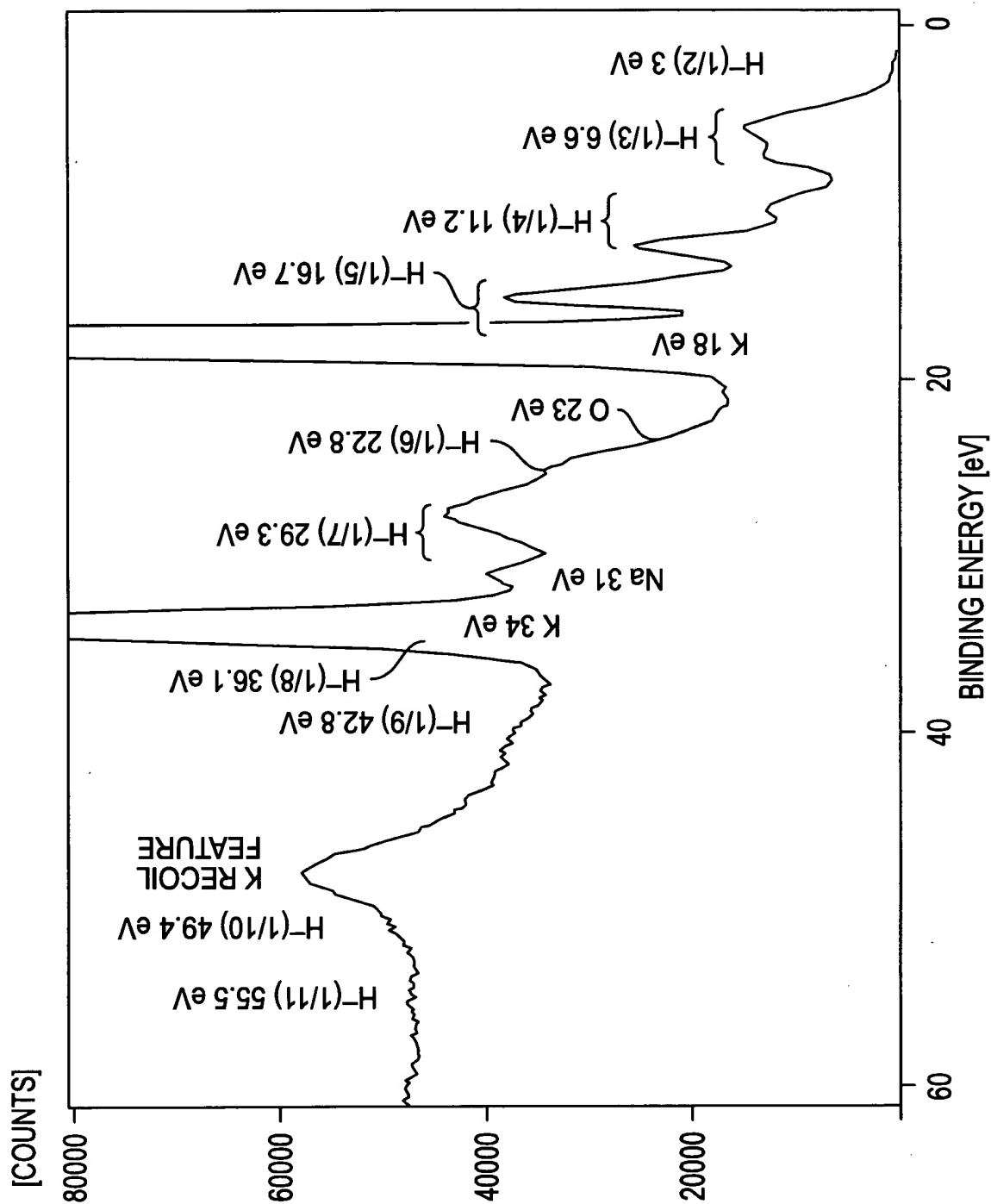


FIG. 87

SECRETED BY THE GOVERNMENT

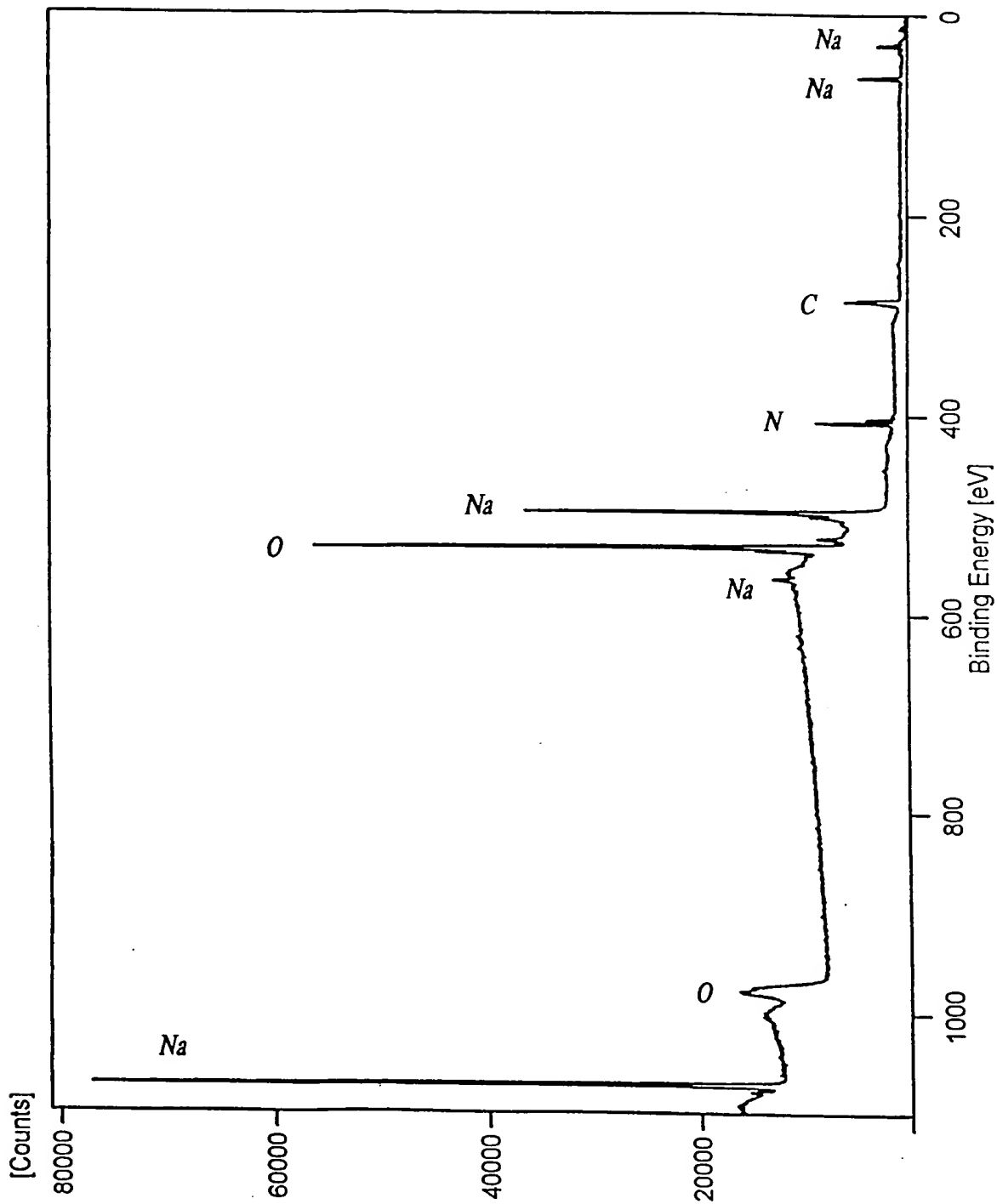


Fig. 88

CONFIDENTIAL

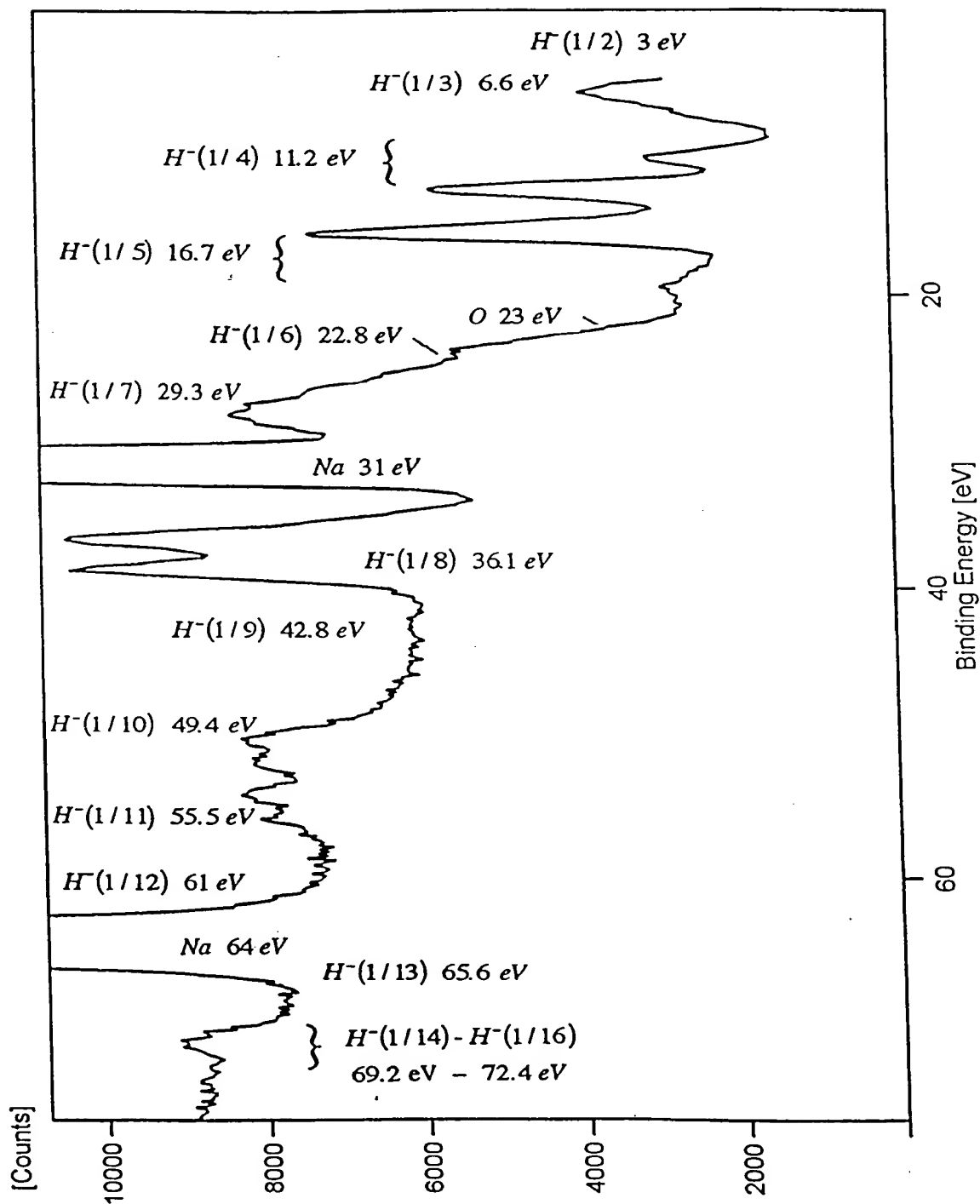


Fig. 89

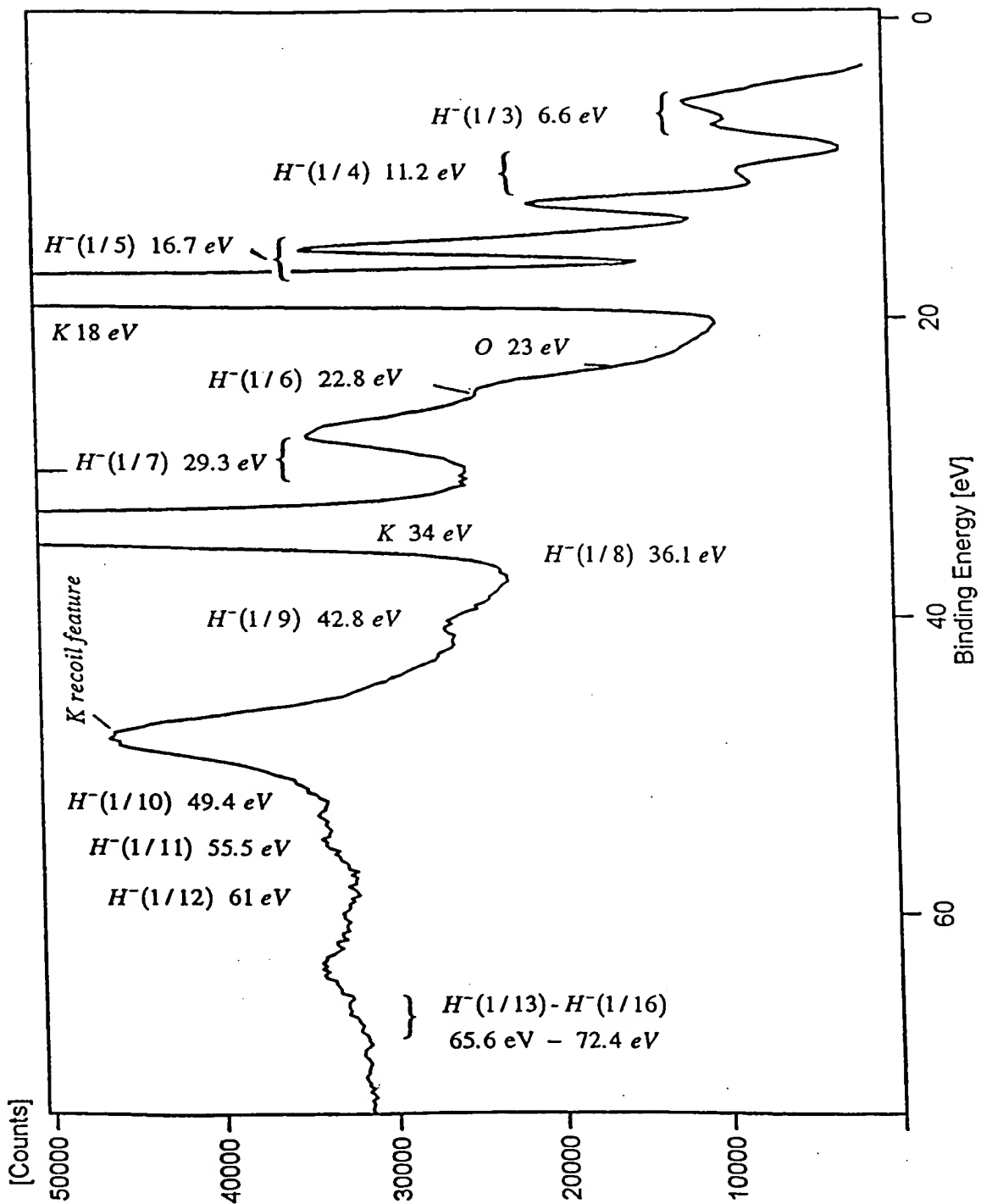


Fig. 90

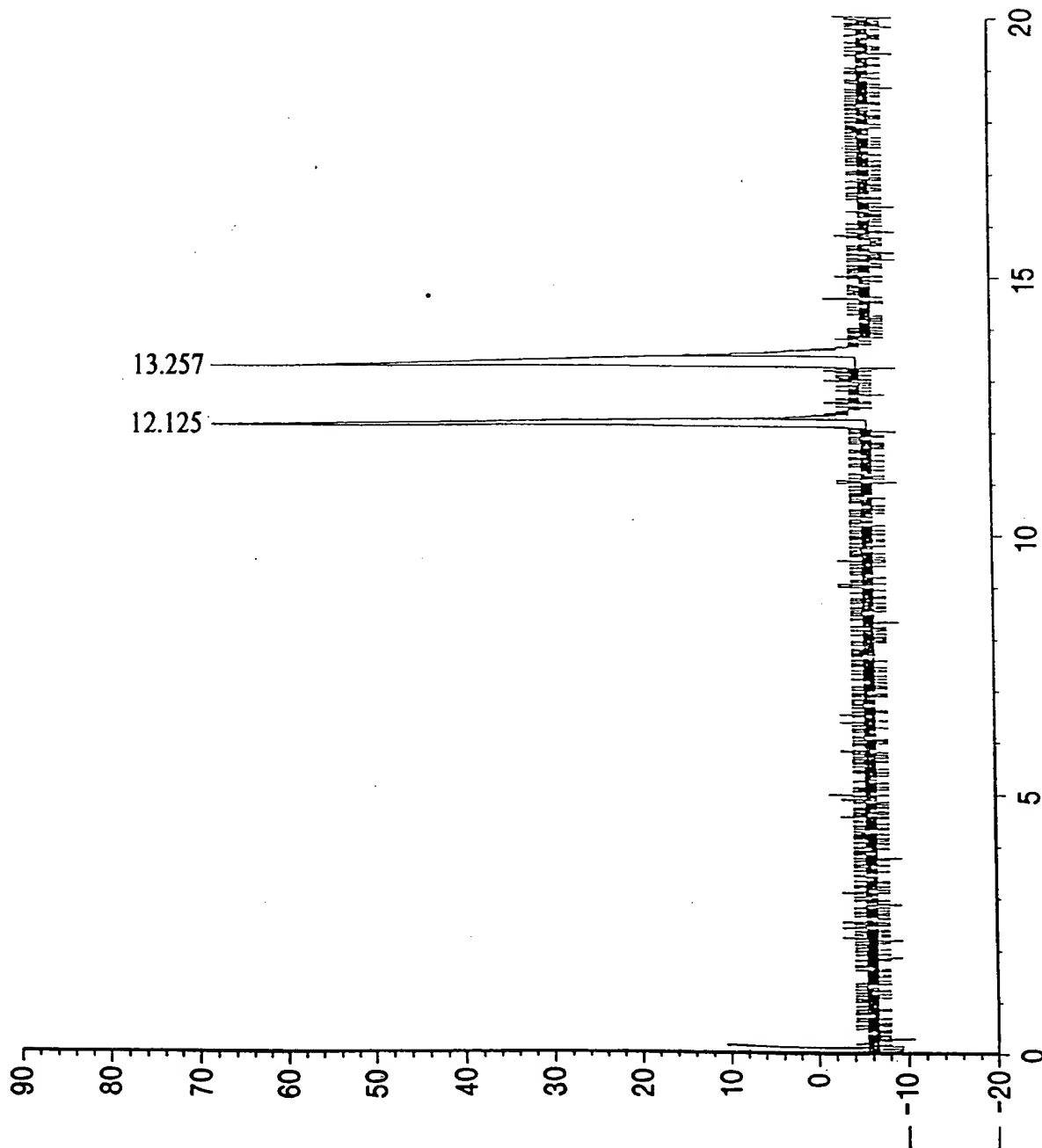


Fig. 91

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APPROVED	FIG. 92.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

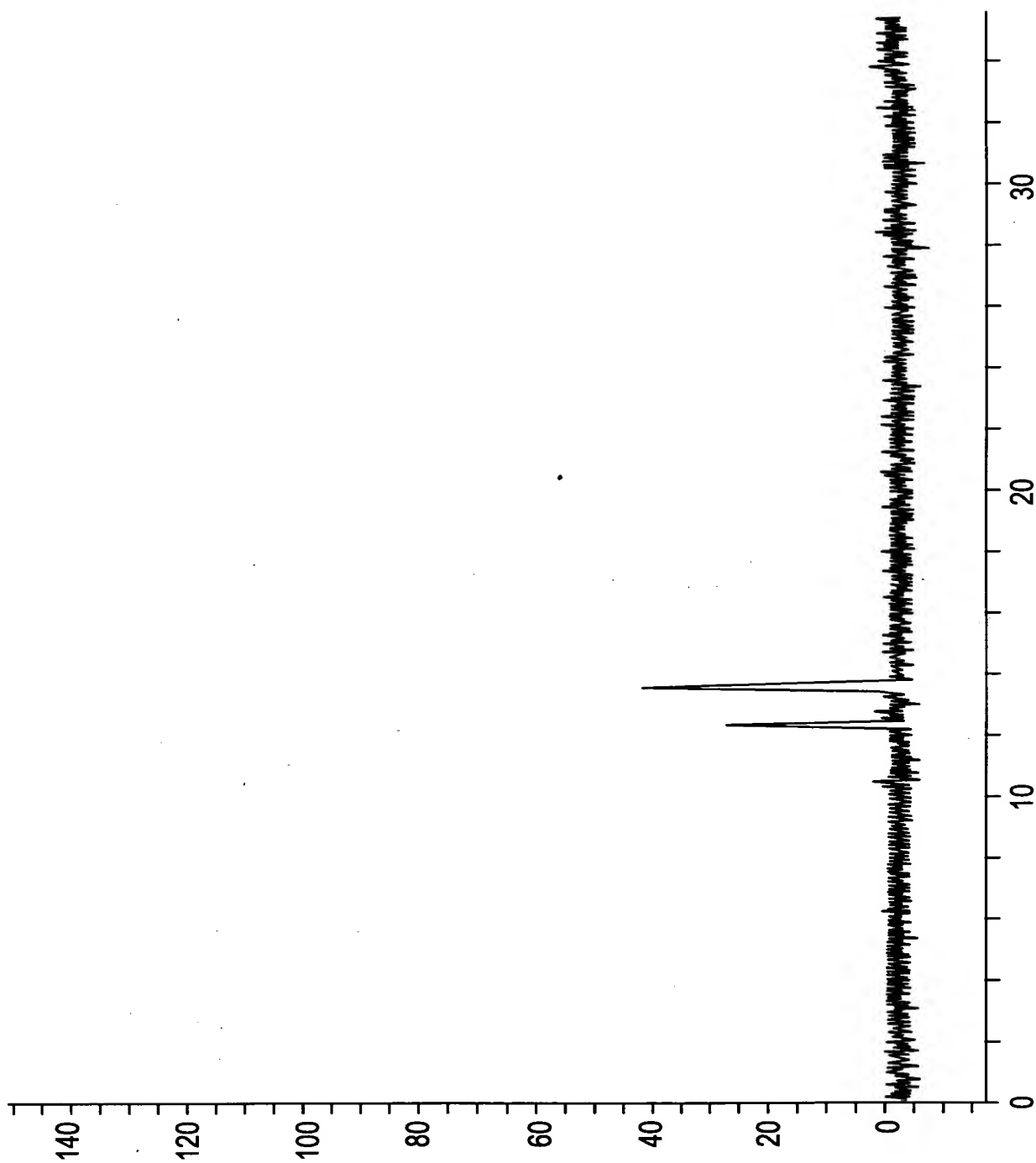


FIG. 92

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 ENDORSEMENT OR RECOMMENDATION THEREBY

APPROVED	FIG. 93	
BY	CLASS	SUBCLASS
DRAFTSMAN		

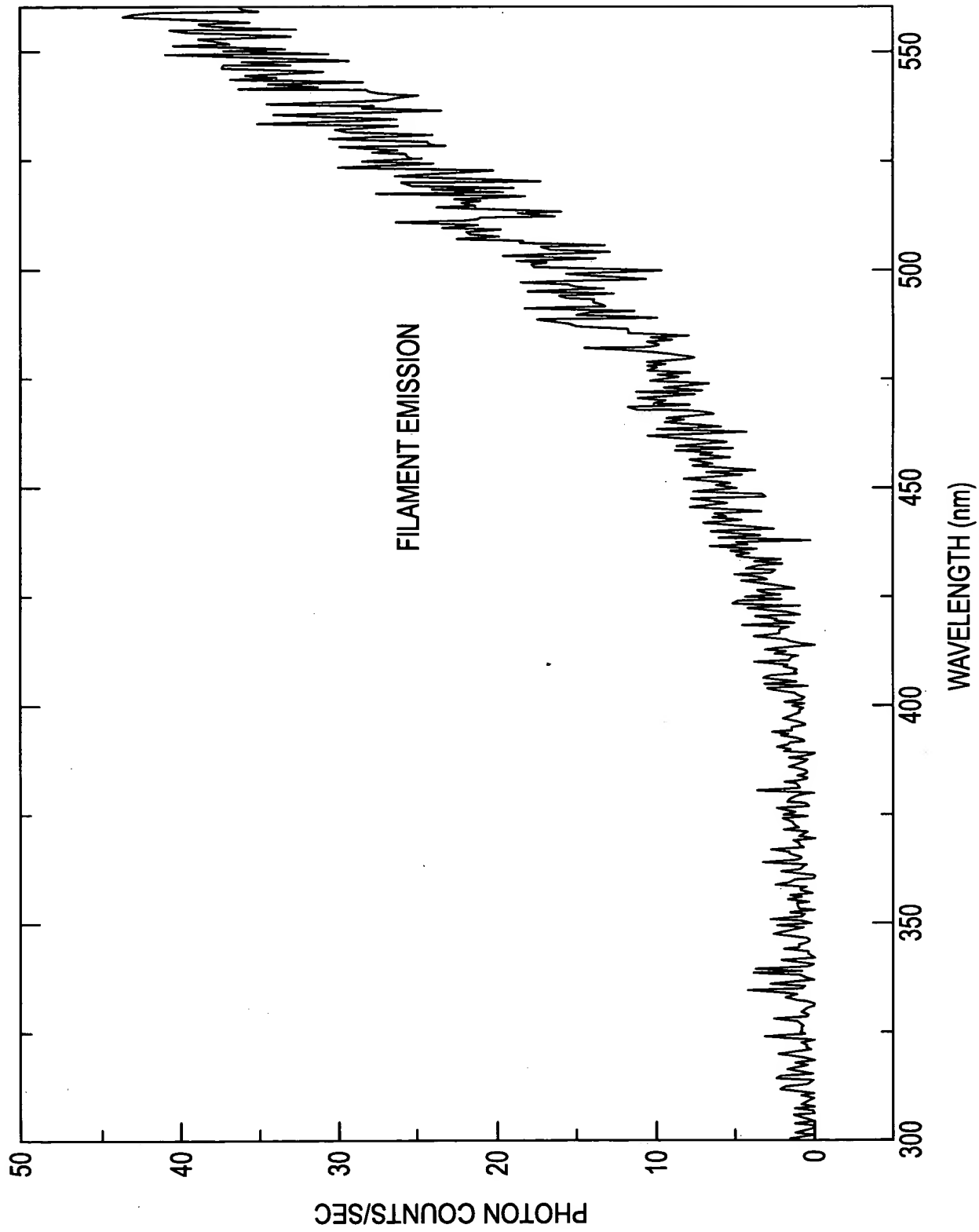


FIG. 93

PHOTON COUNTS/SEC
WAVELENGTH (nm)

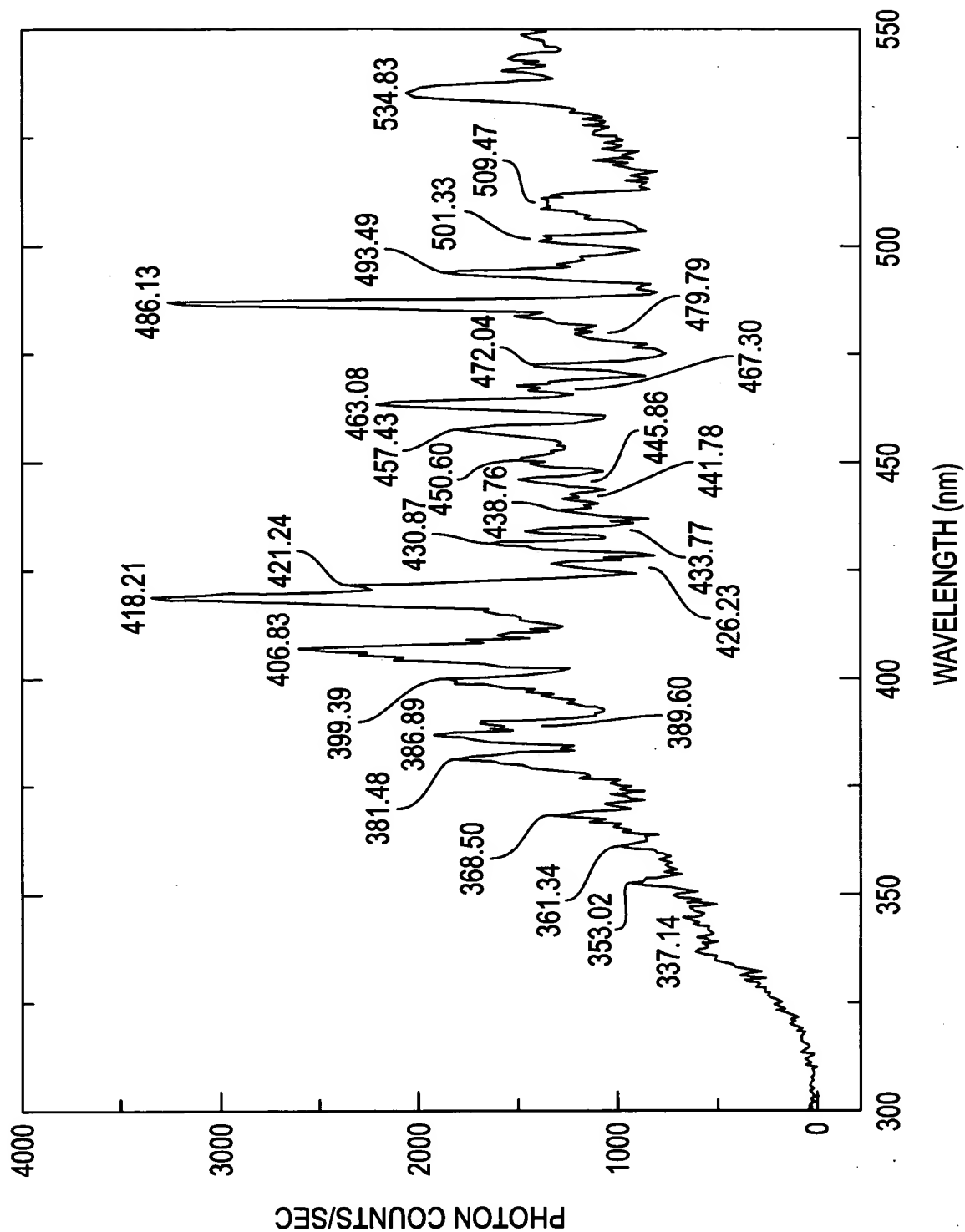


FIG. 94

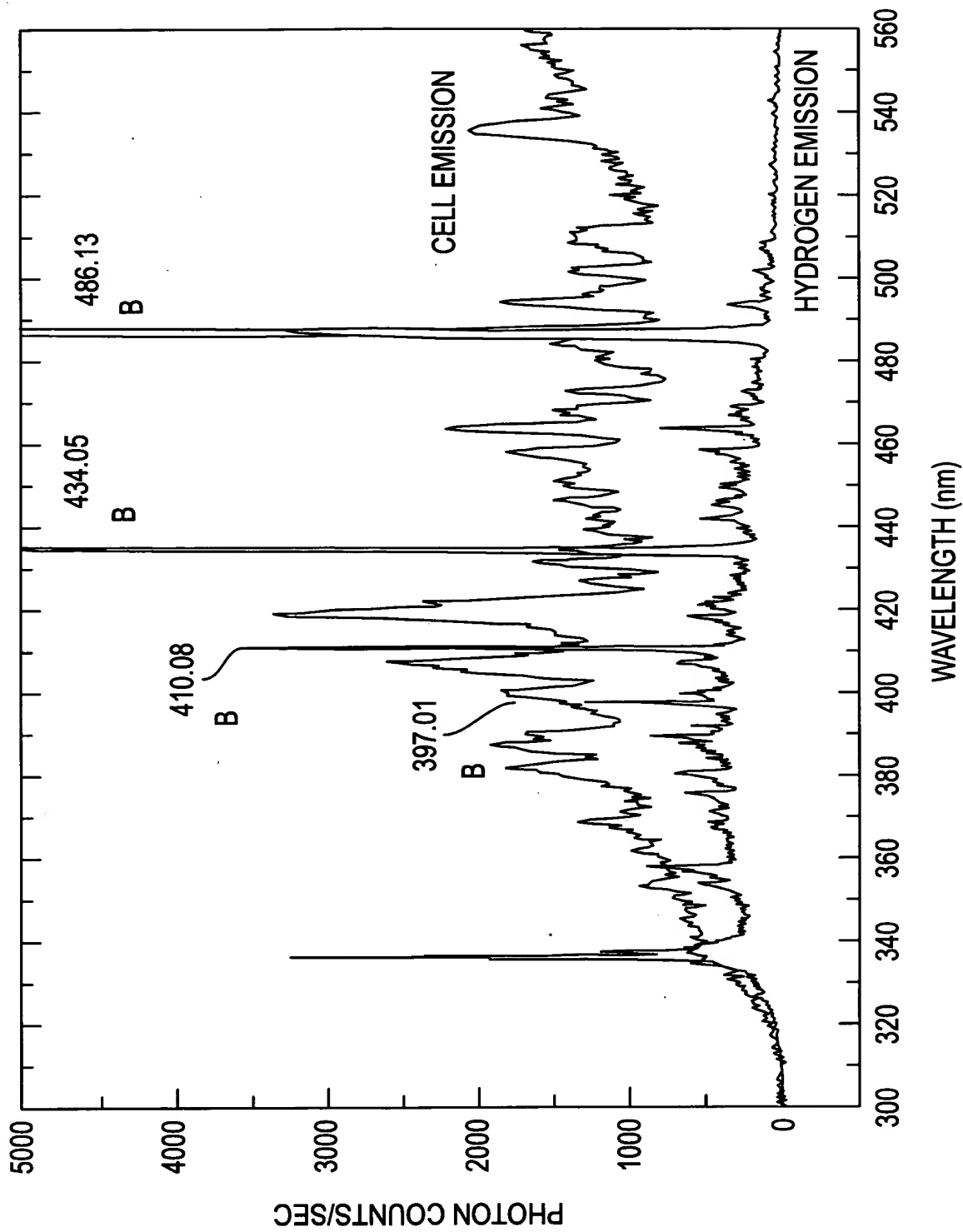


FIG. 95

... ..

FIG. 96A

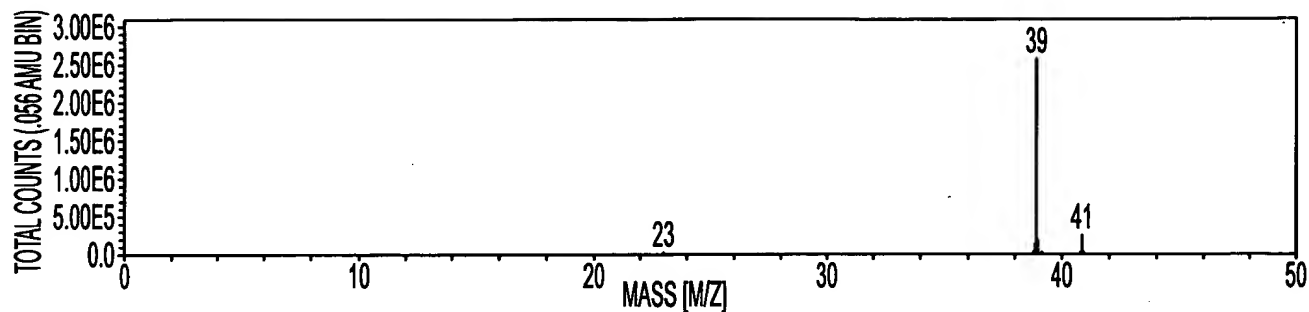


FIG. 96B

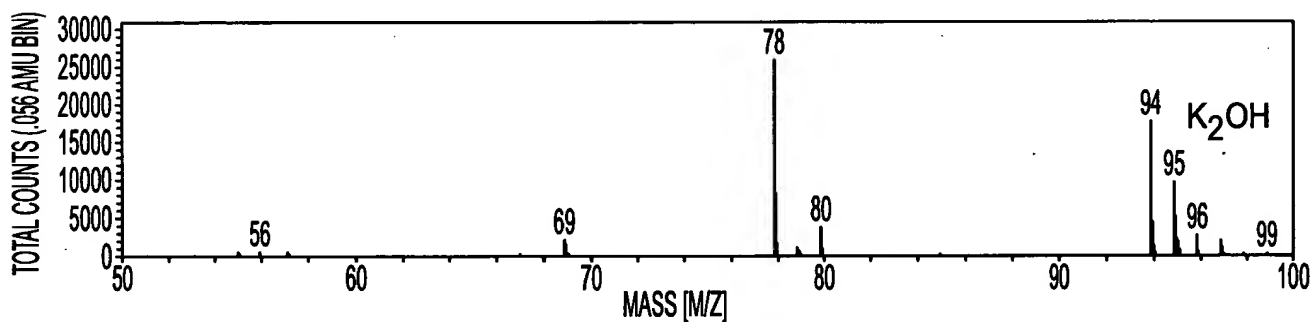


FIG. 96C

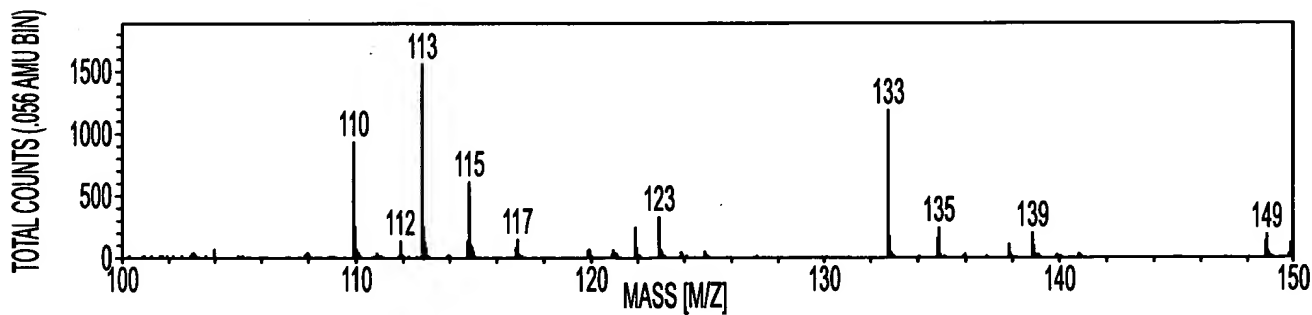
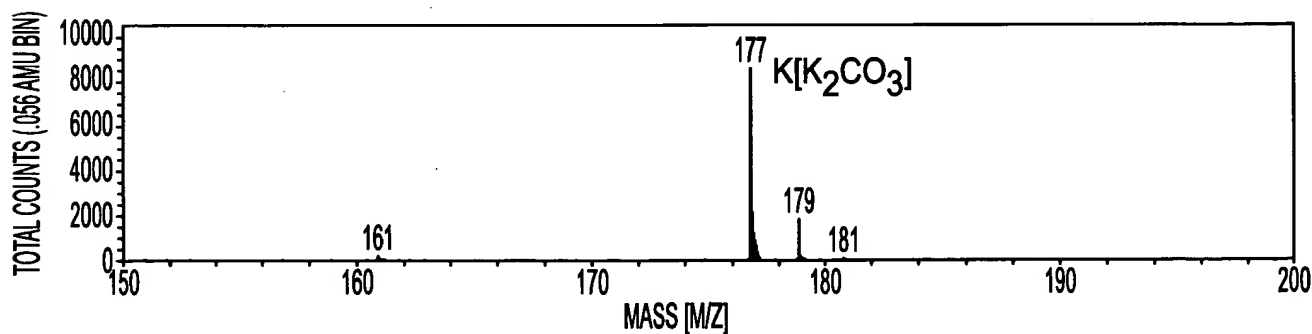


FIG. 96D



SCANNED 1

FIG. 97A

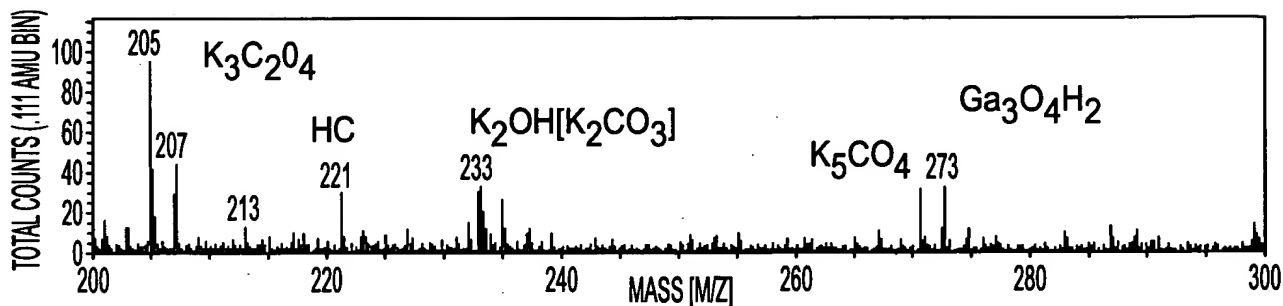


FIG. 97B

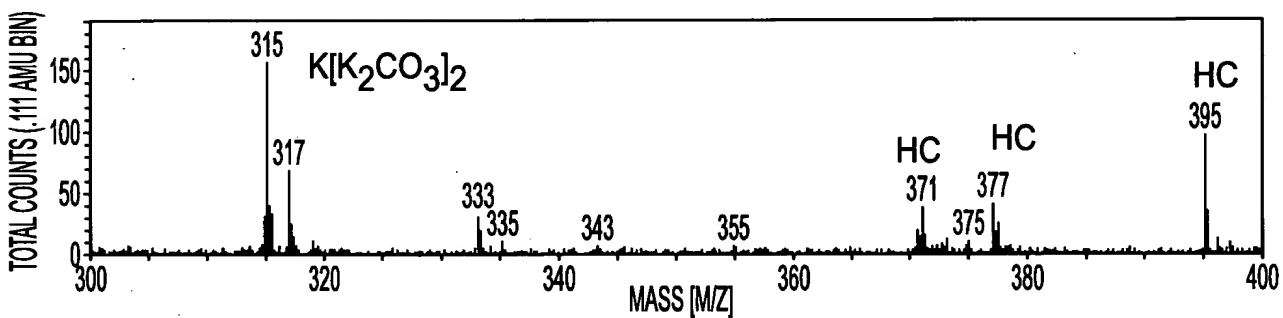


FIG. 97C

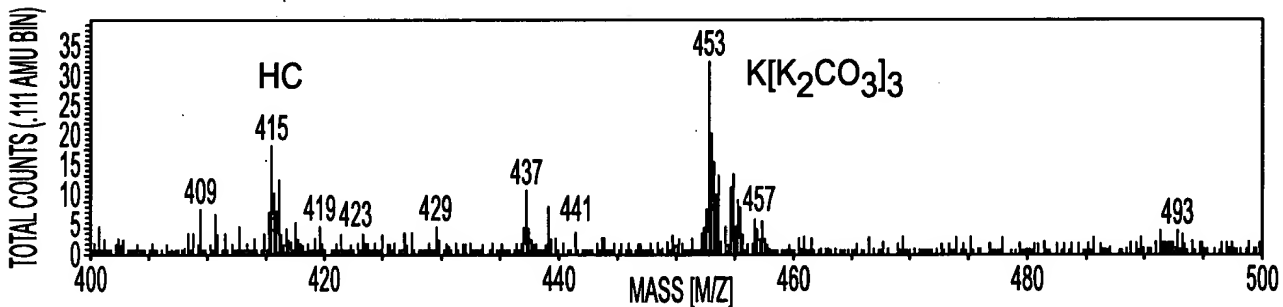


FIG. 97D

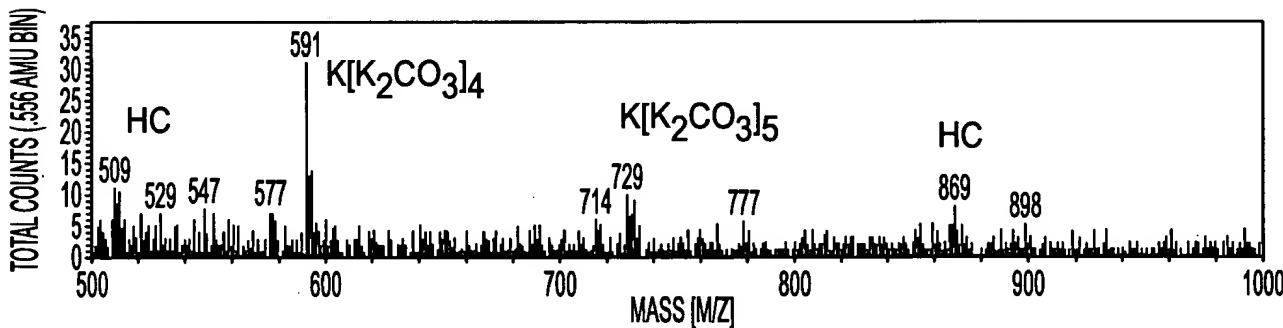


FIG. 98A

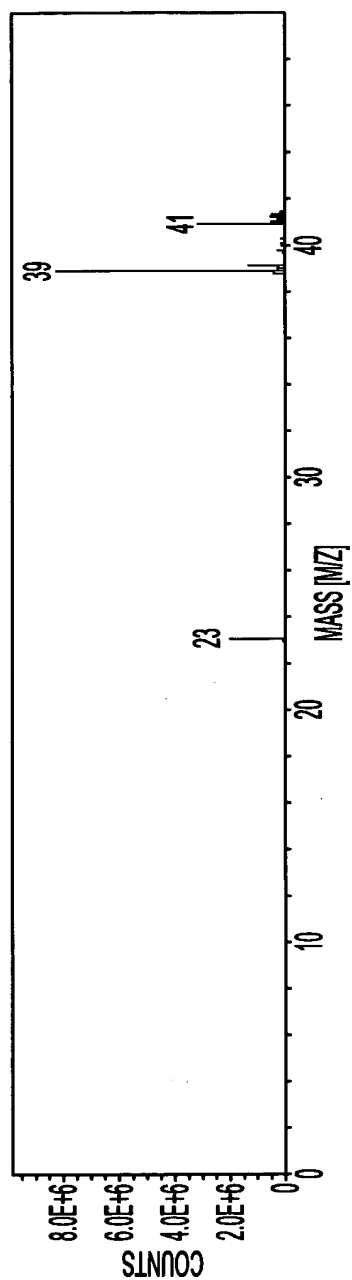
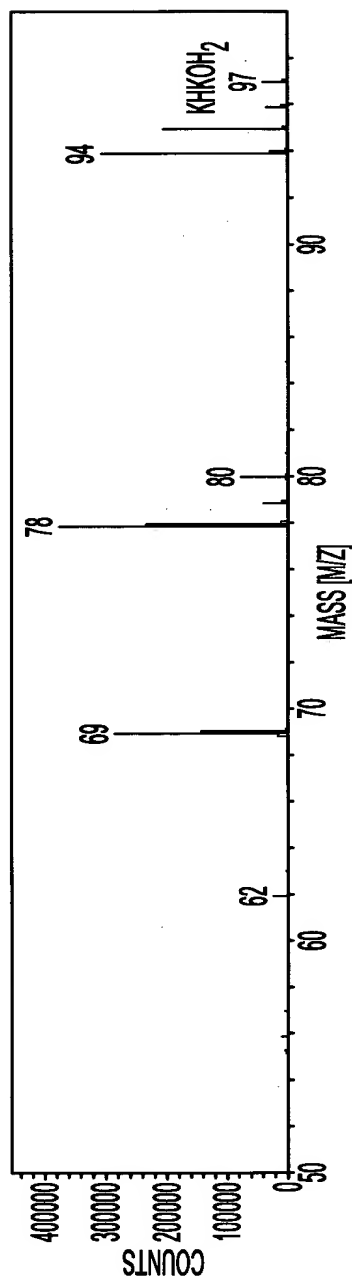


FIG. 98B



APPROVED	FIG.	
BY	CLASS	SUBCLASS
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FIG. 98C

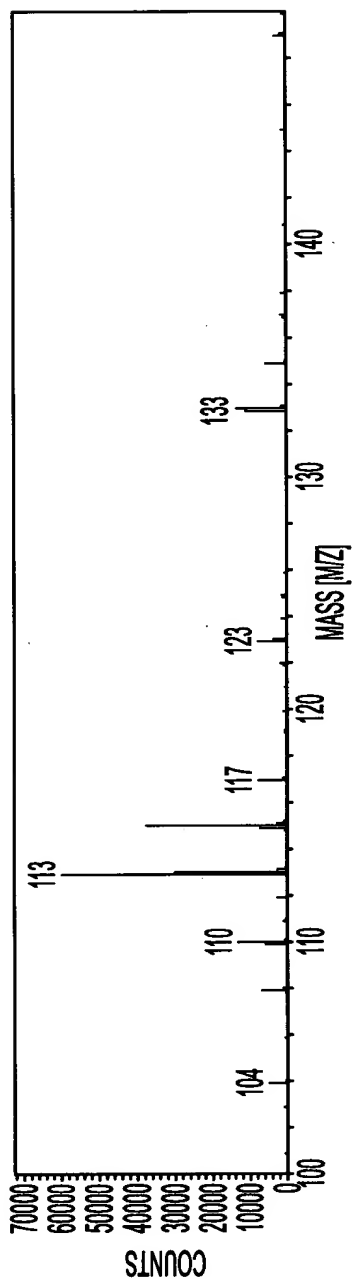


FIG. 98D

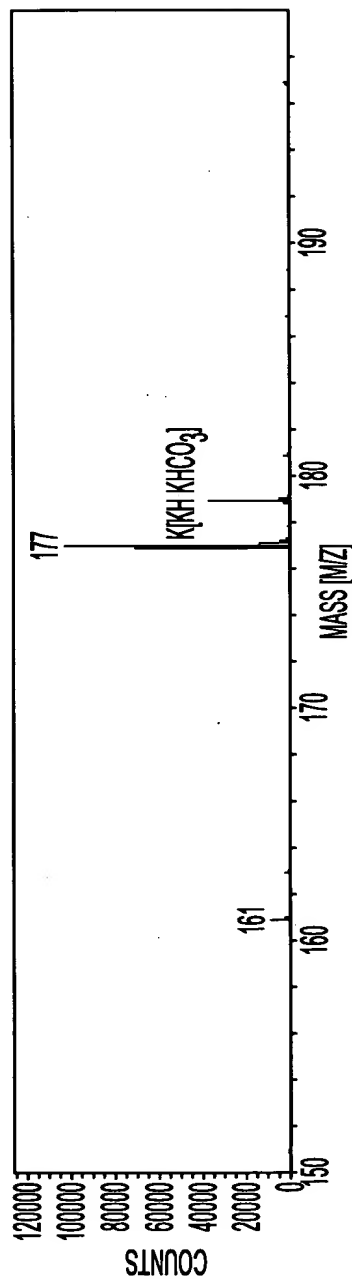


FIG. 99A

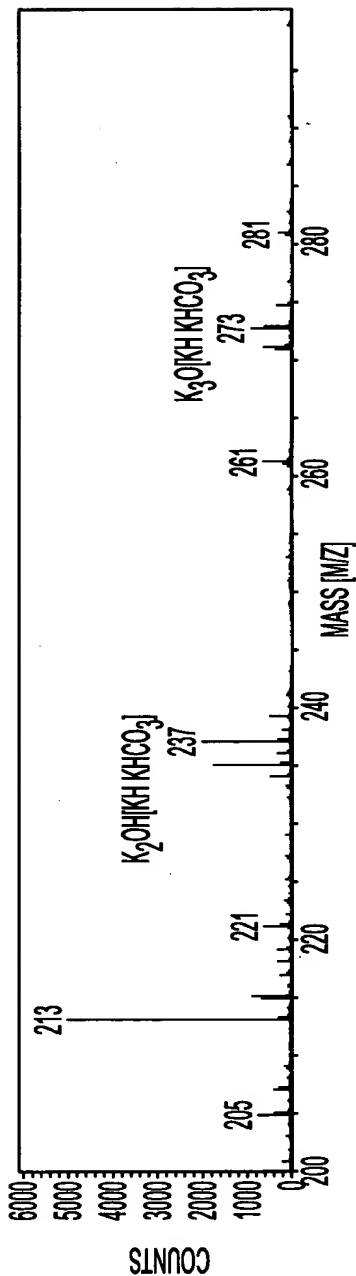


FIG. 99B

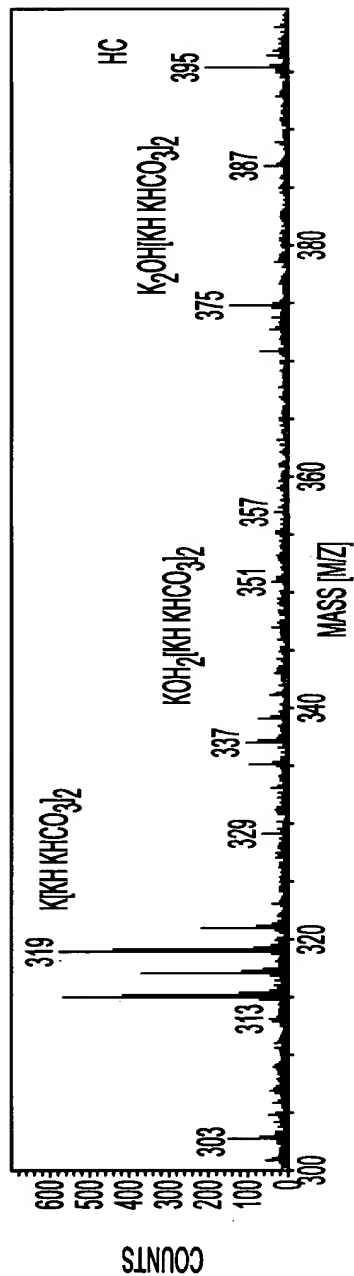


FIG. 99C

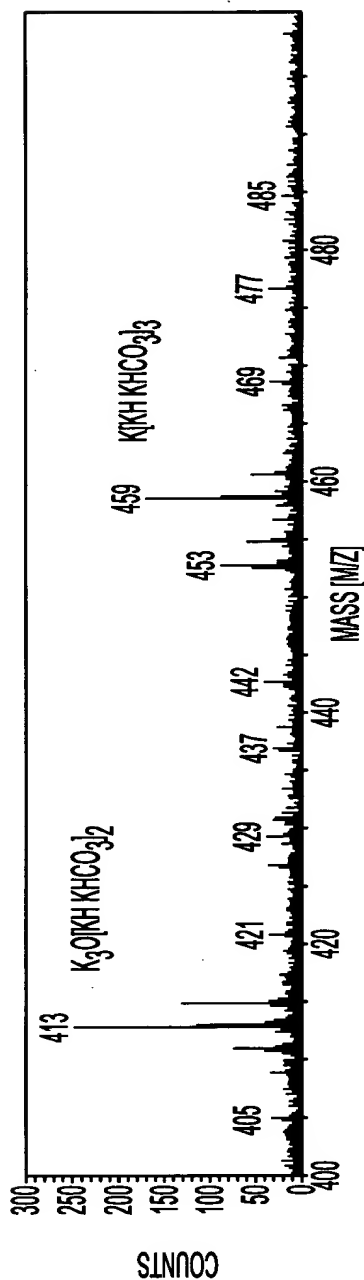
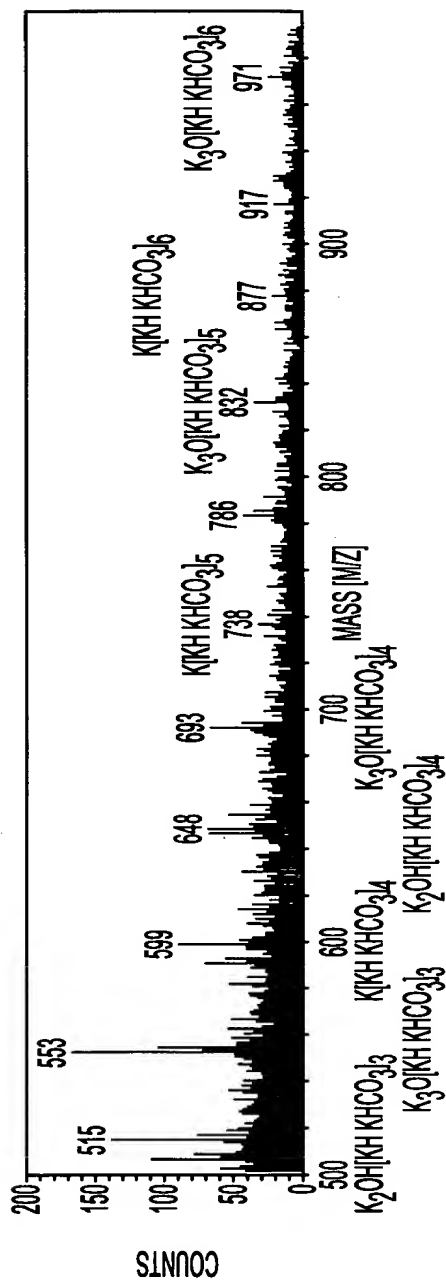


FIG. 99D



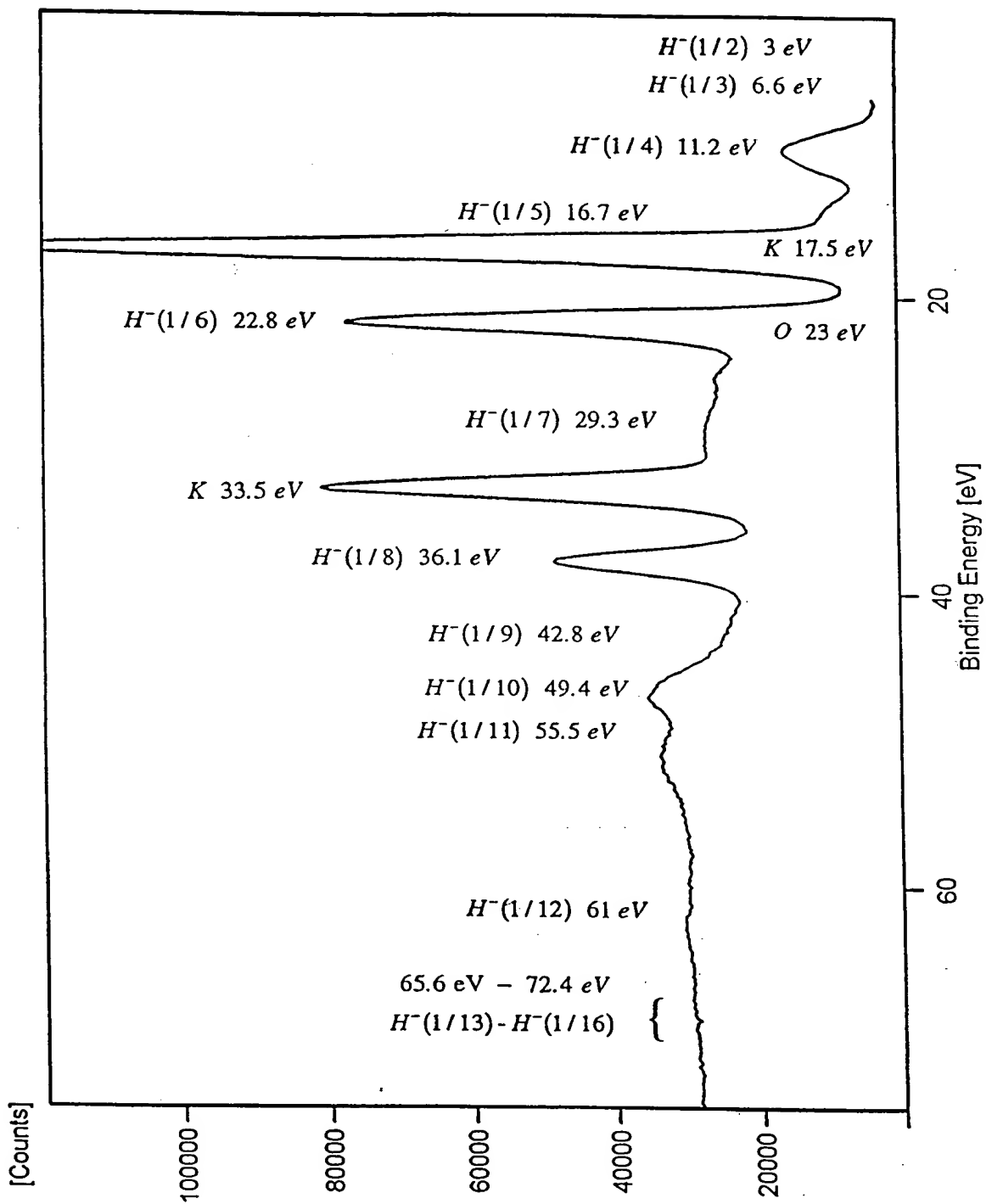


Fig. 100

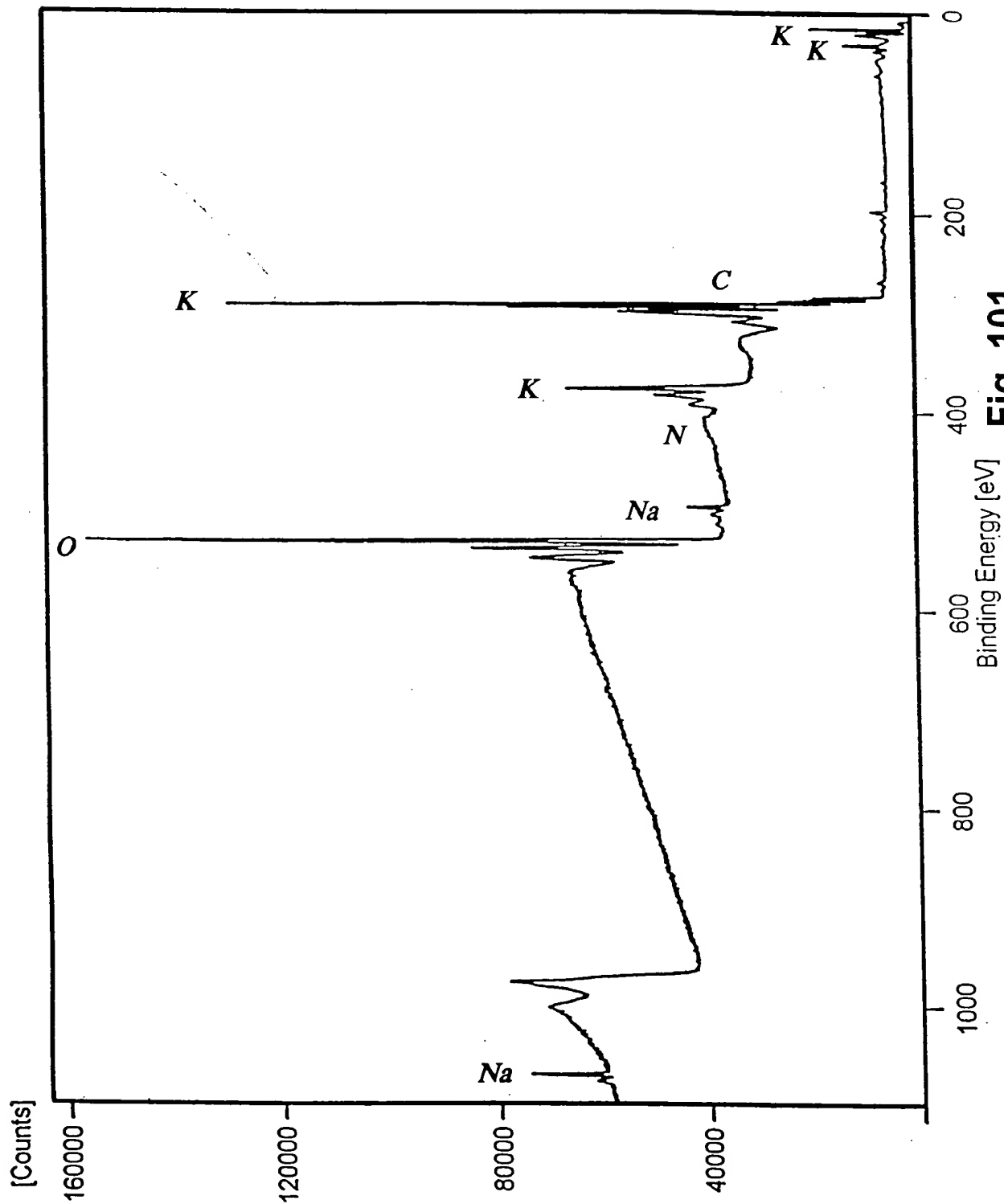


Fig. 101

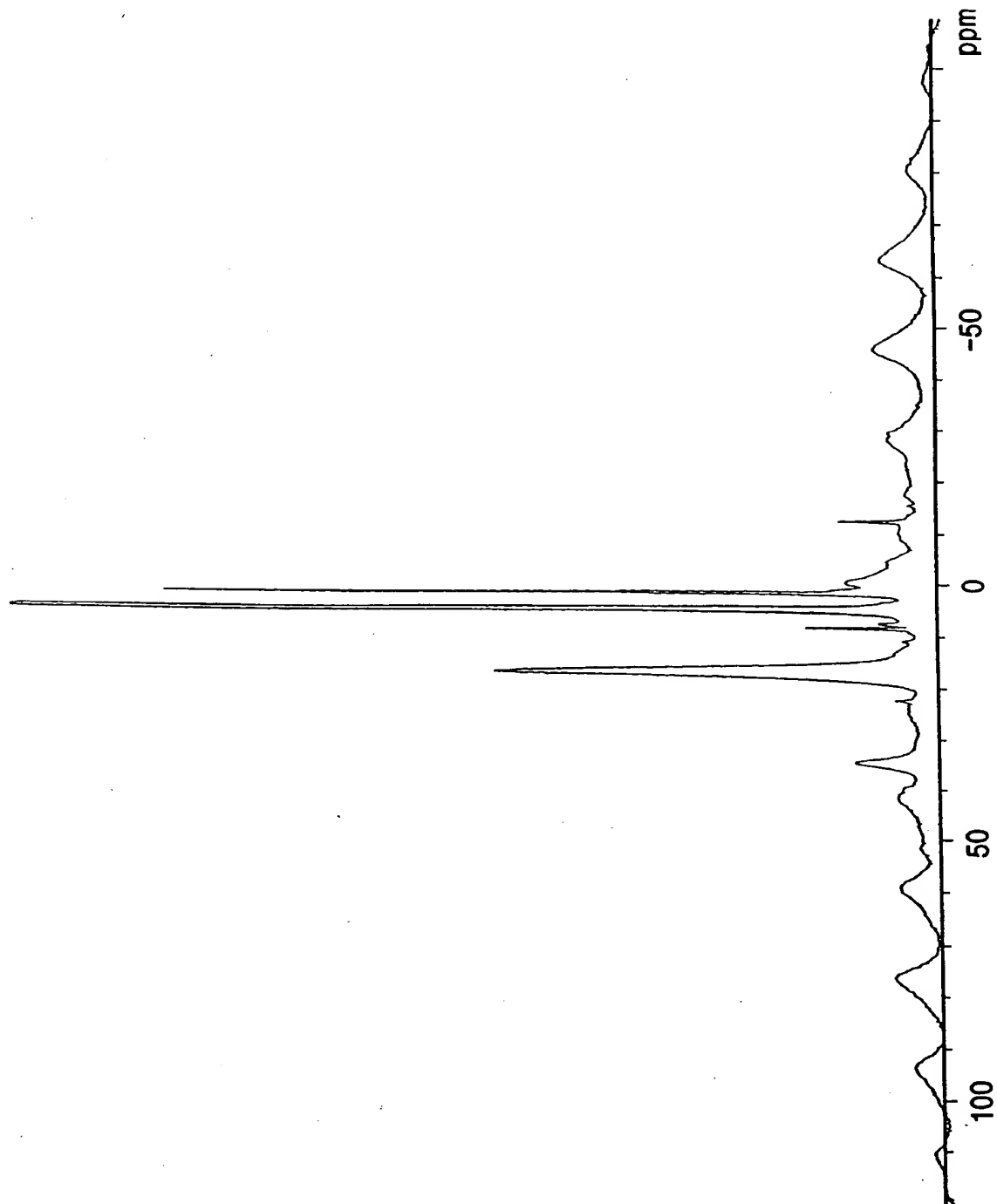
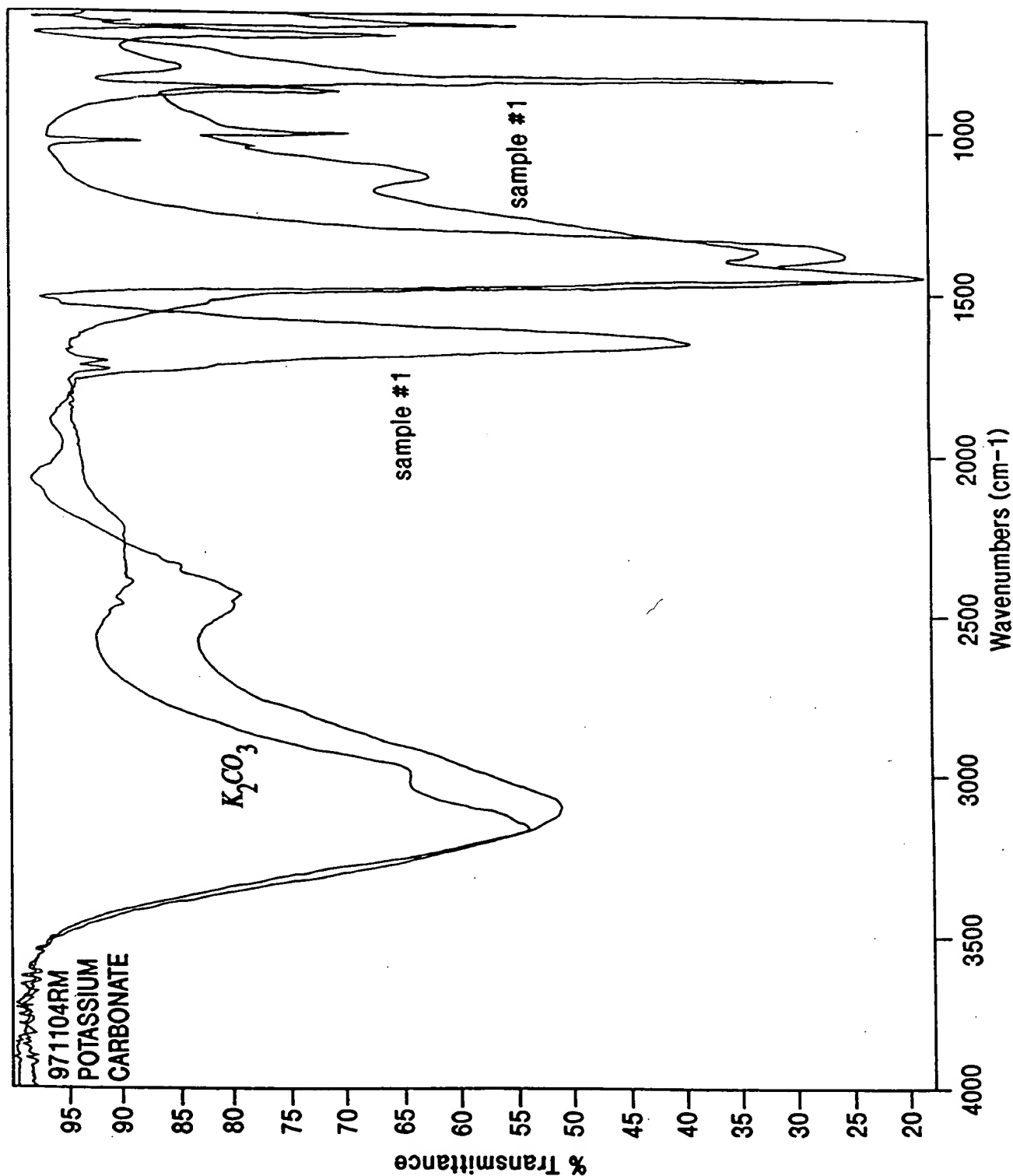


Fig. 102

[illegible]

[illegible]

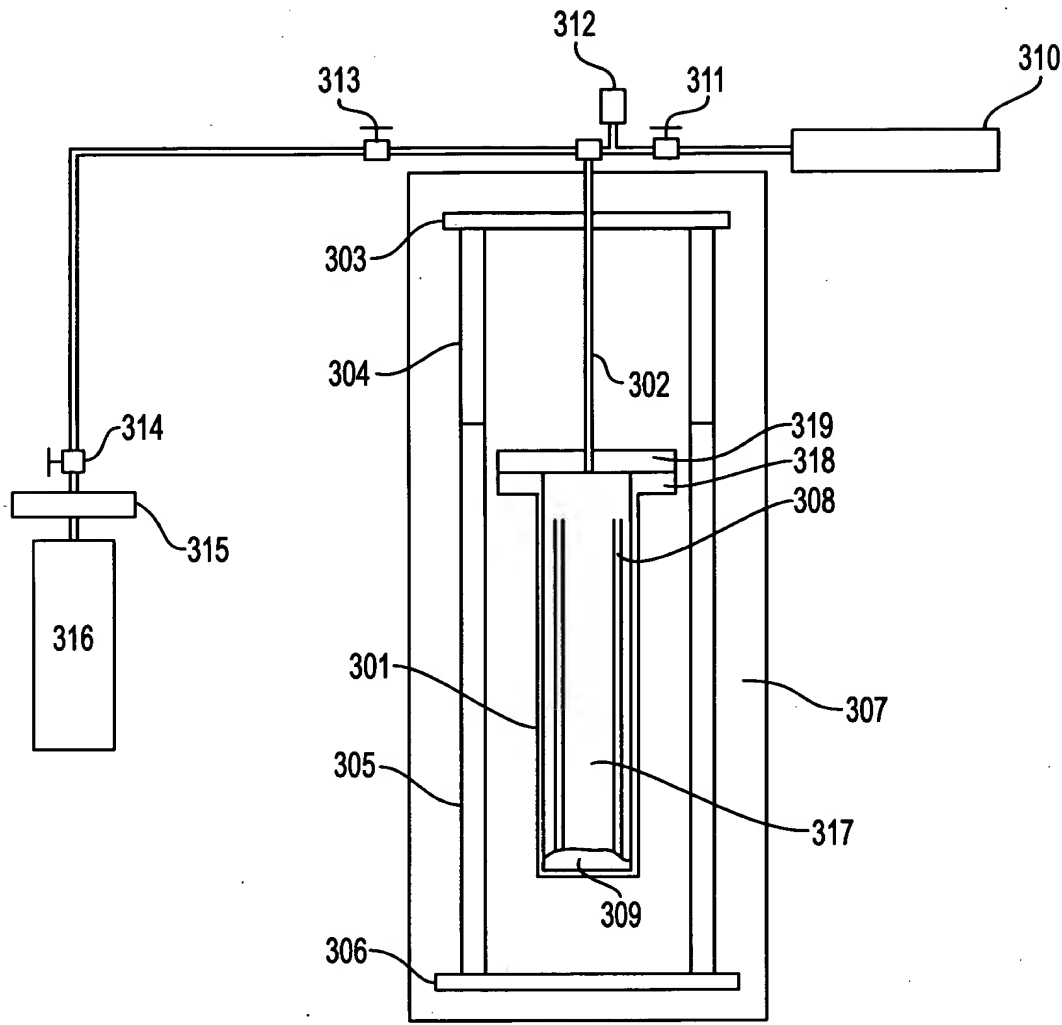


FIG. 104

CANNED

APPROVED	C. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 105A

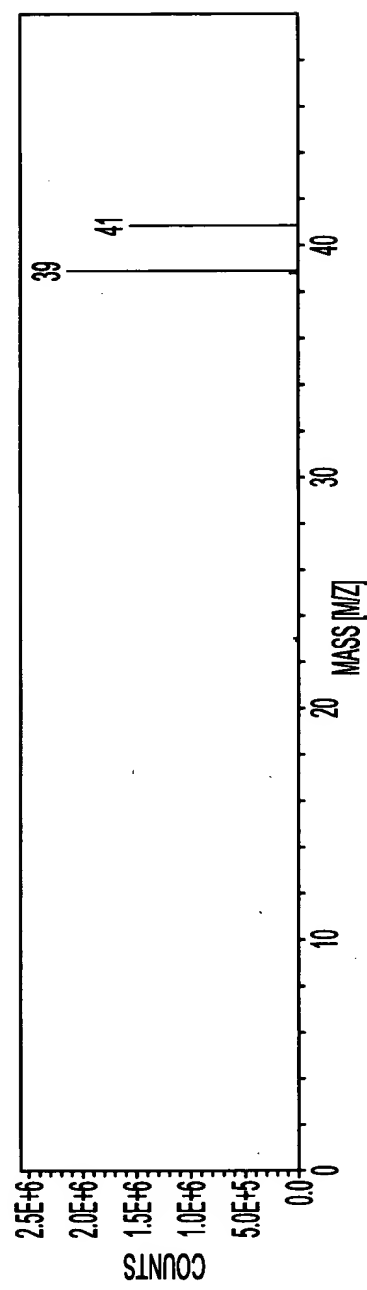


FIG. 105B

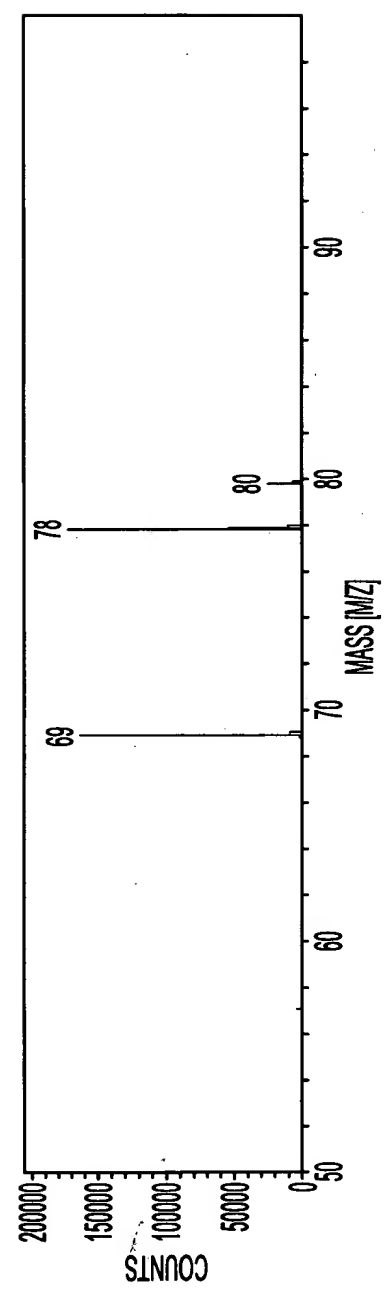


FIG. 105C

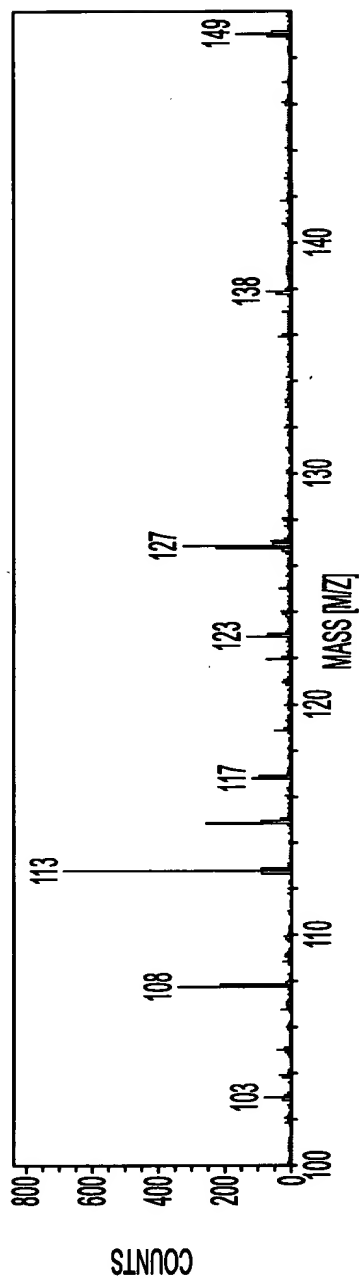
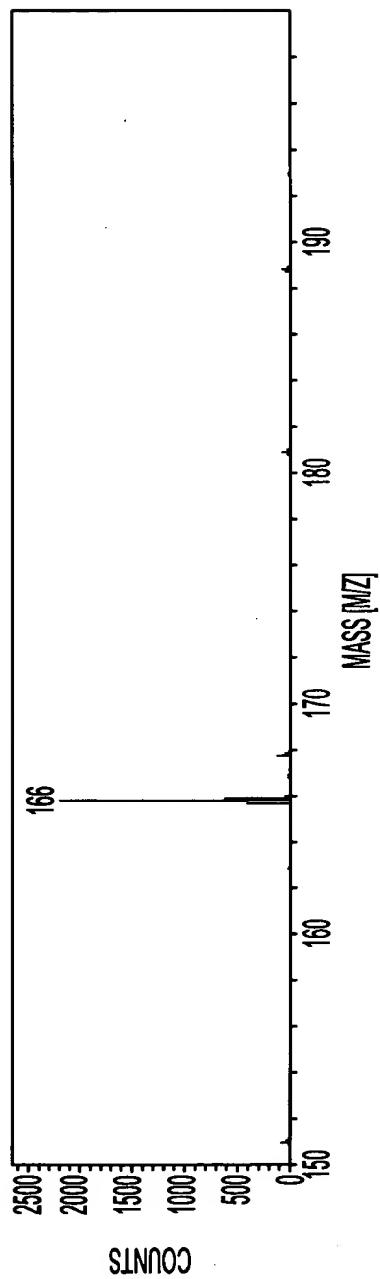


FIG. 105D



APPROVED	FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 106C

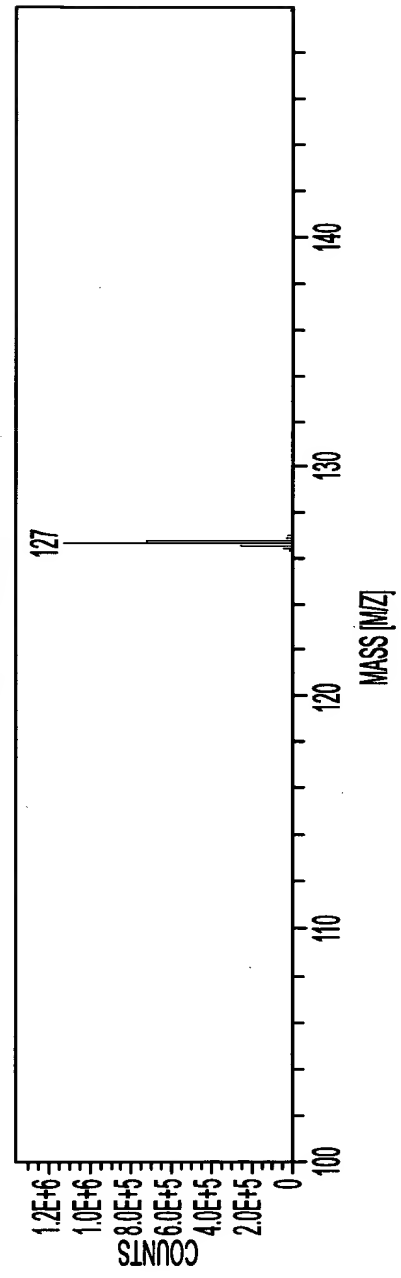
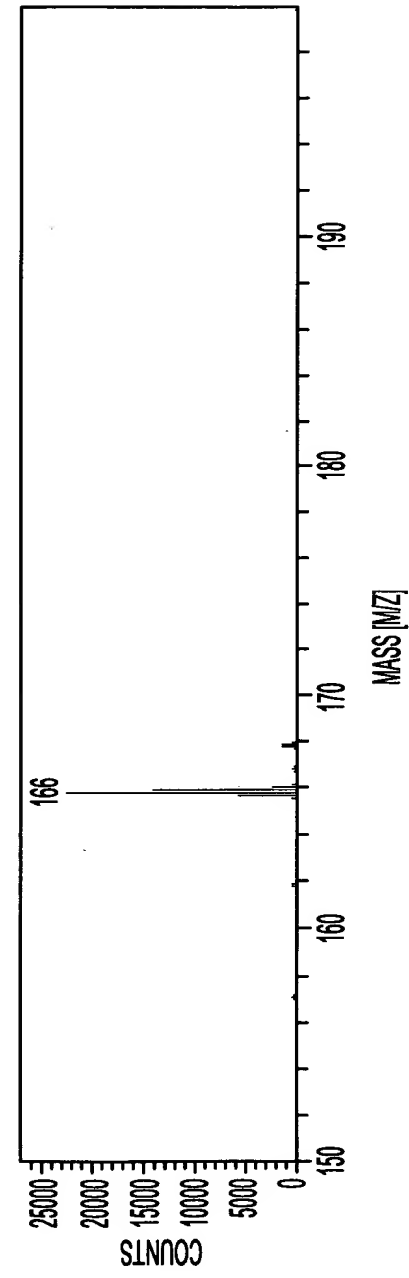


FIG. 106D



... ..

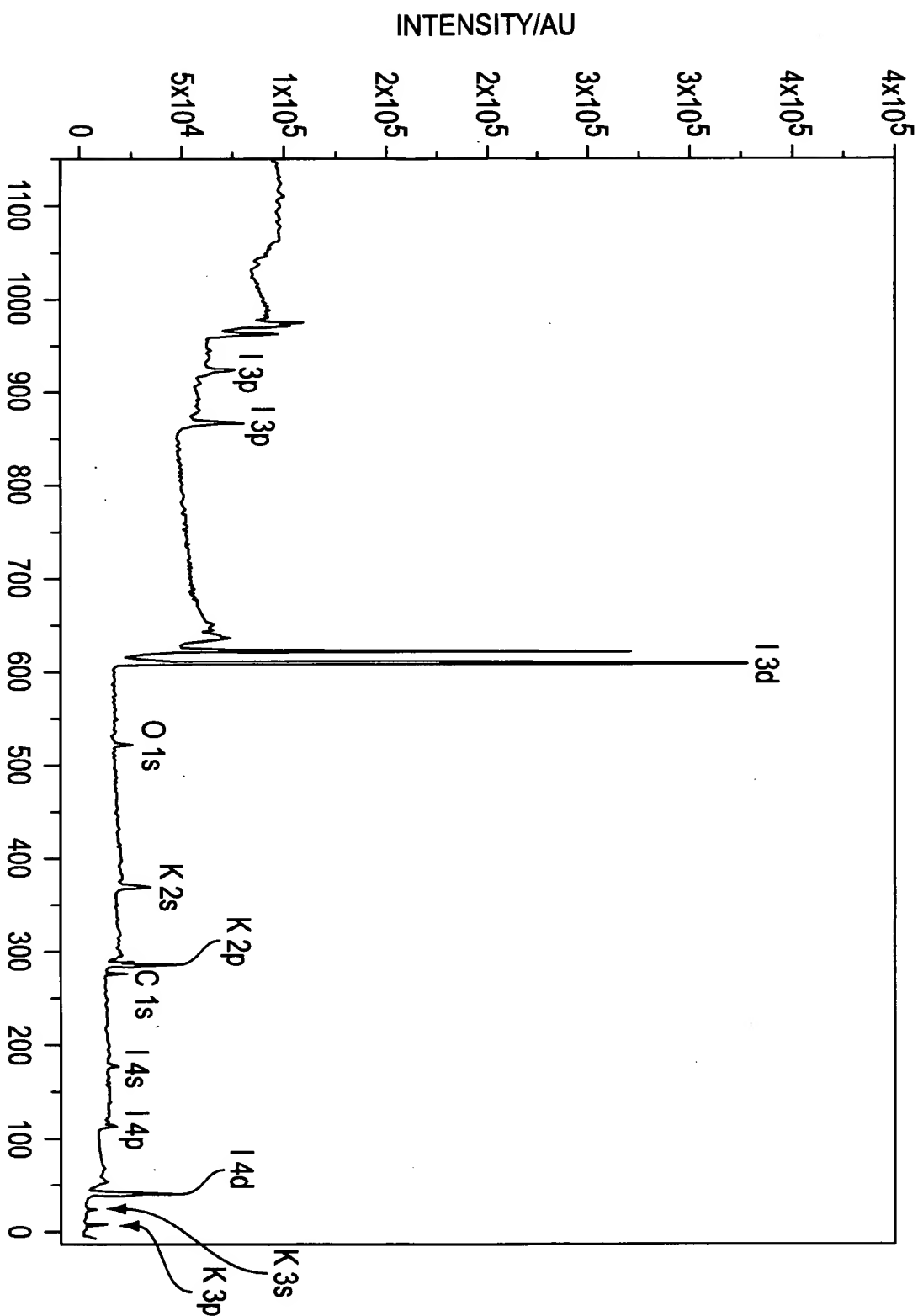


FIG. 107

[illegible]

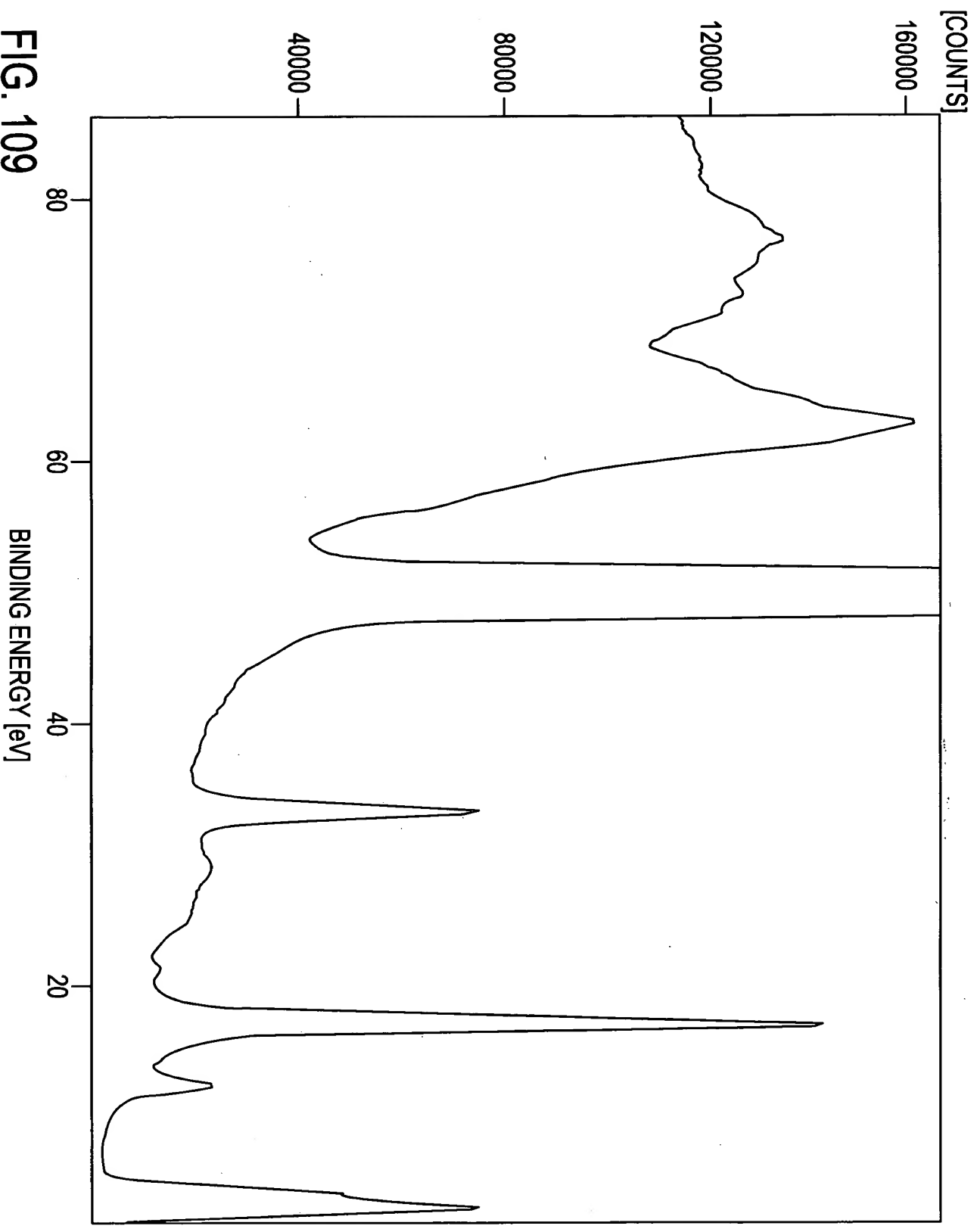


FIG. 109

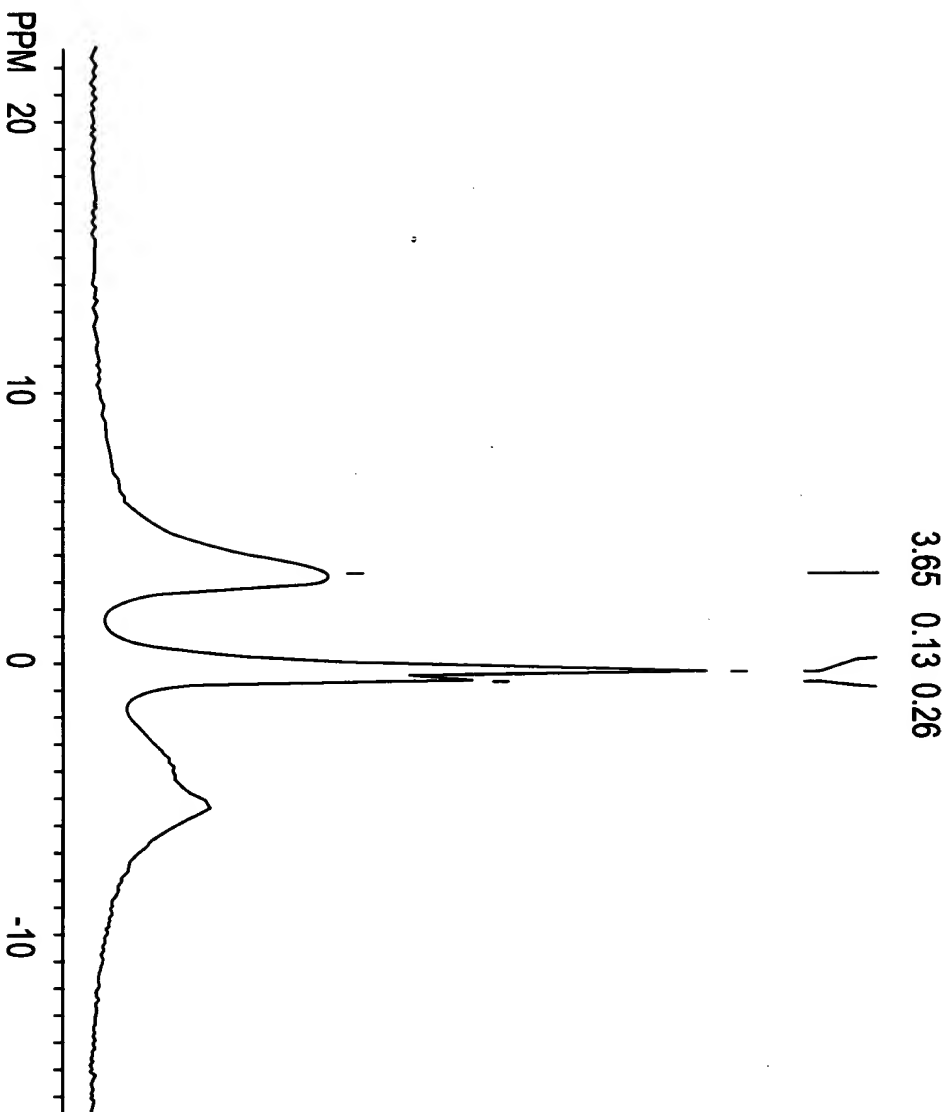


FIG. 110

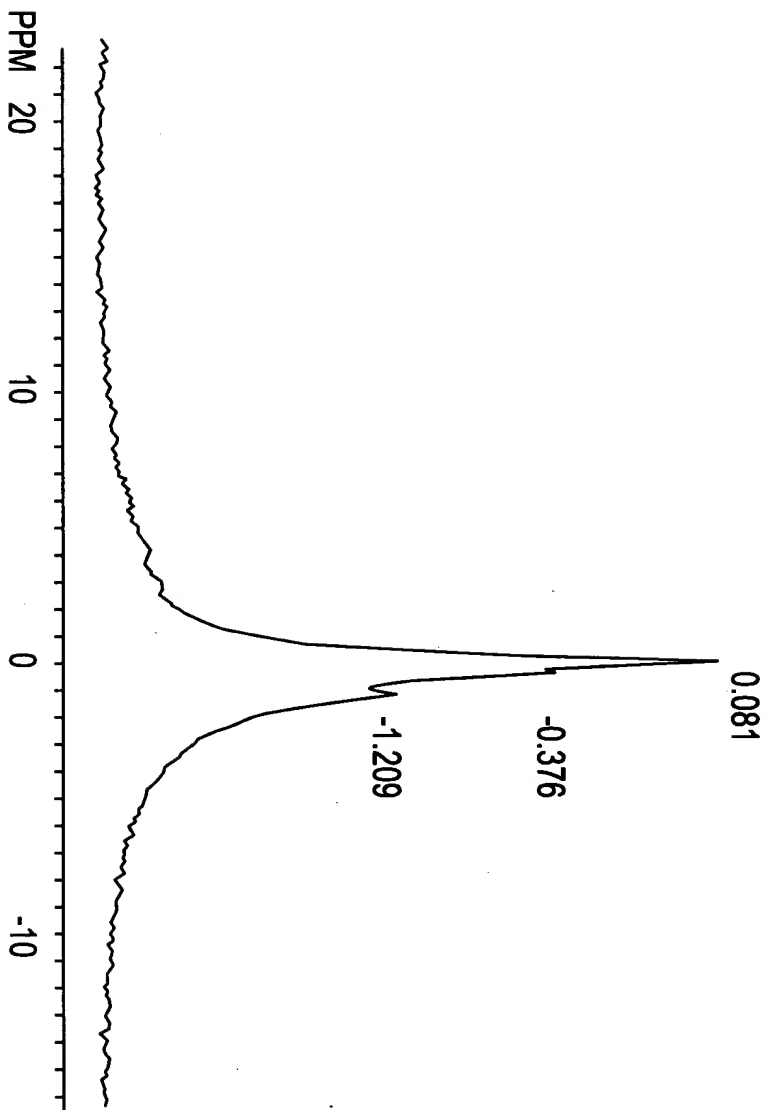


FIG. 111

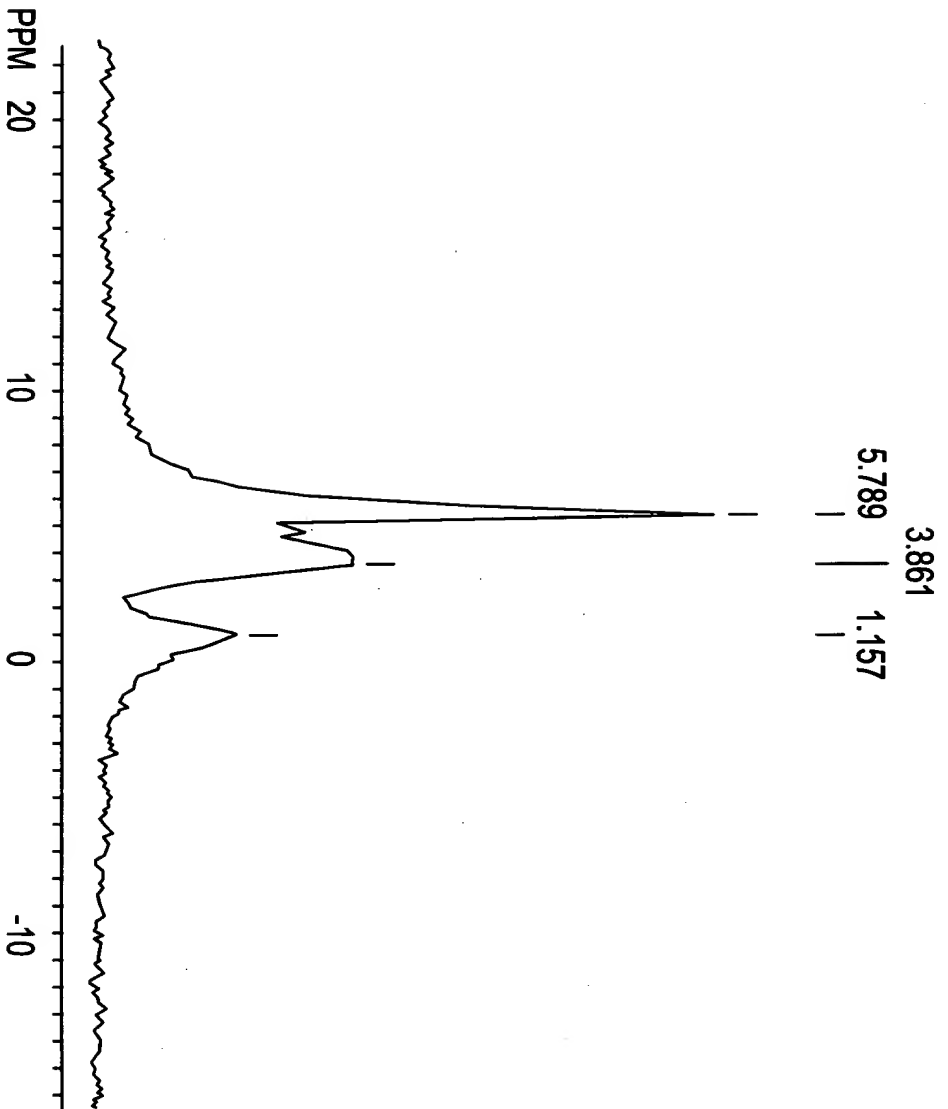


FIG. 112

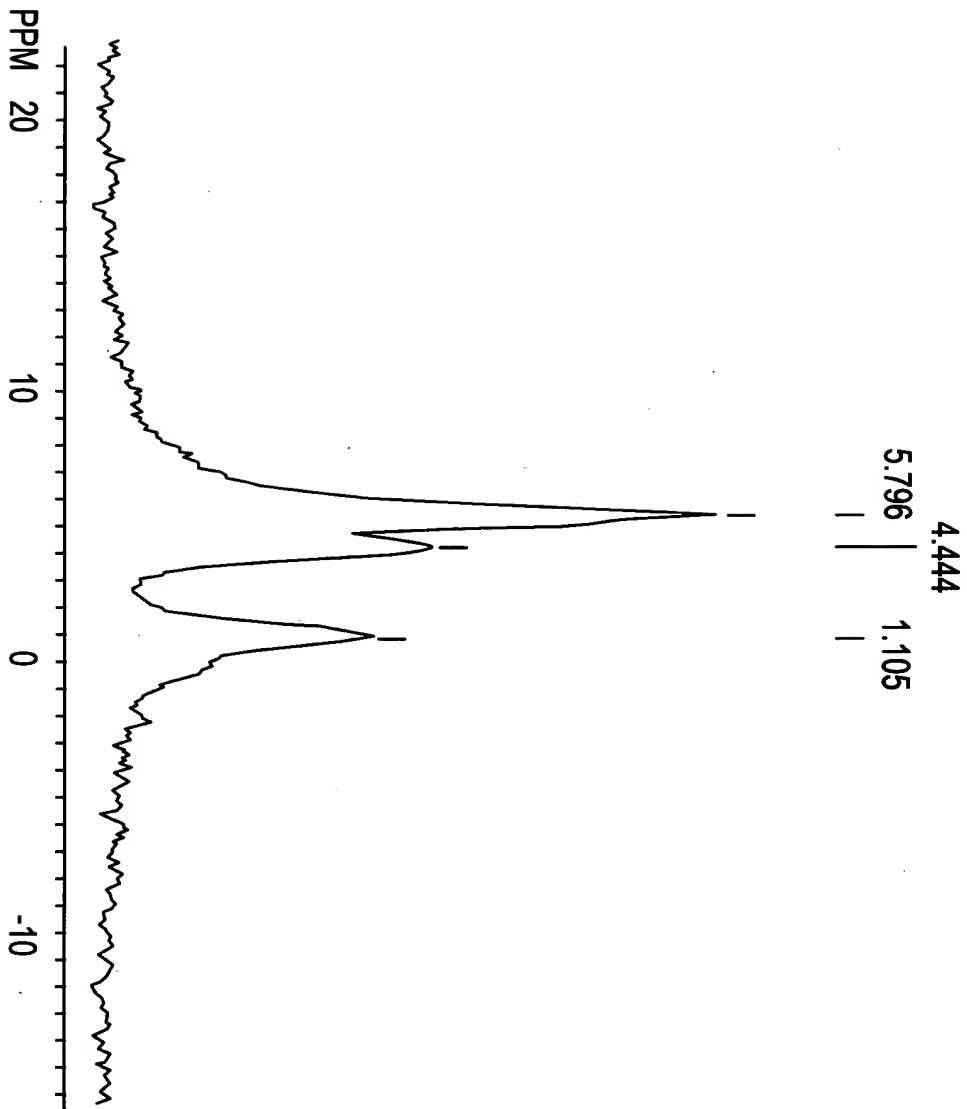


FIG. 113

5.782
|
1.111
|

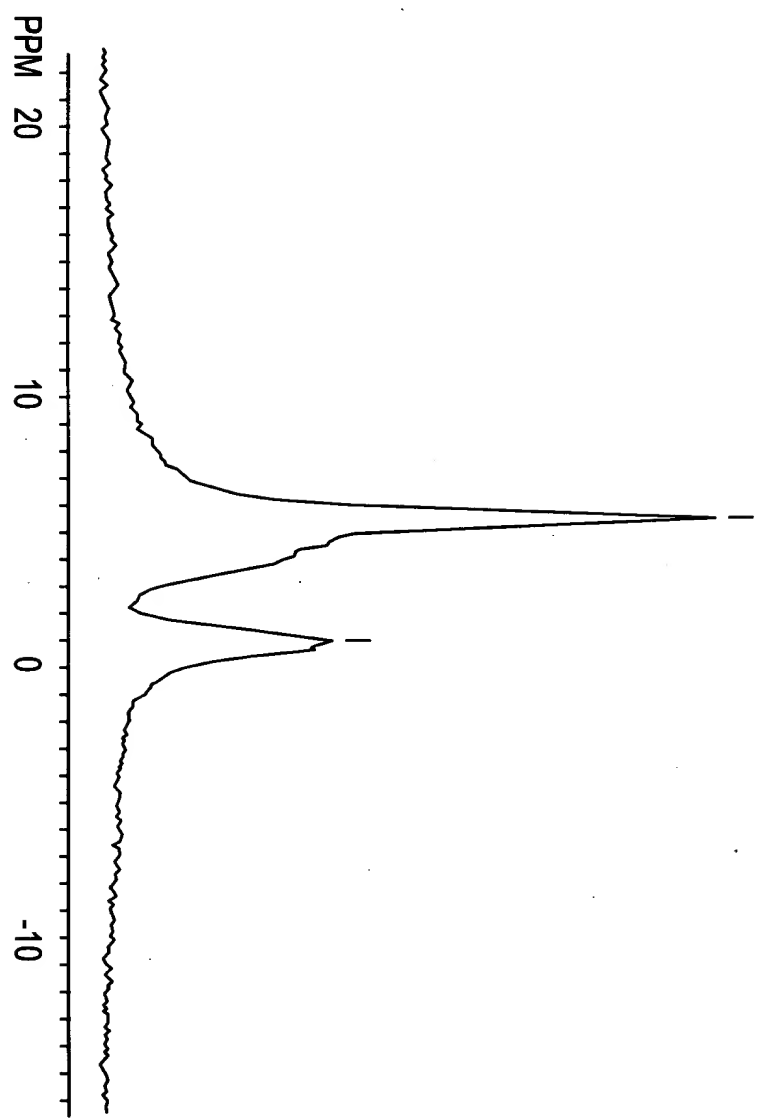


FIG. 114

FIG. 116

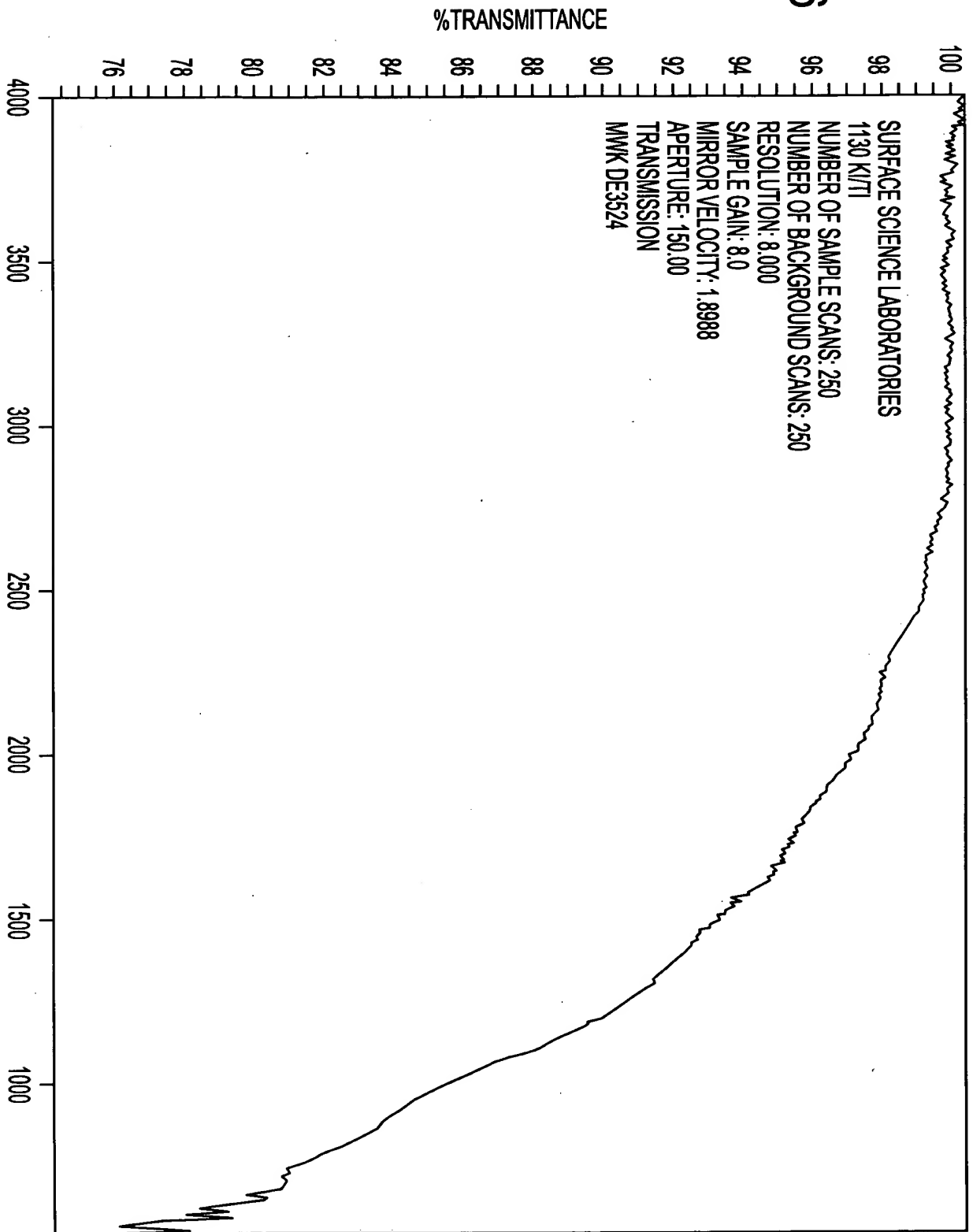
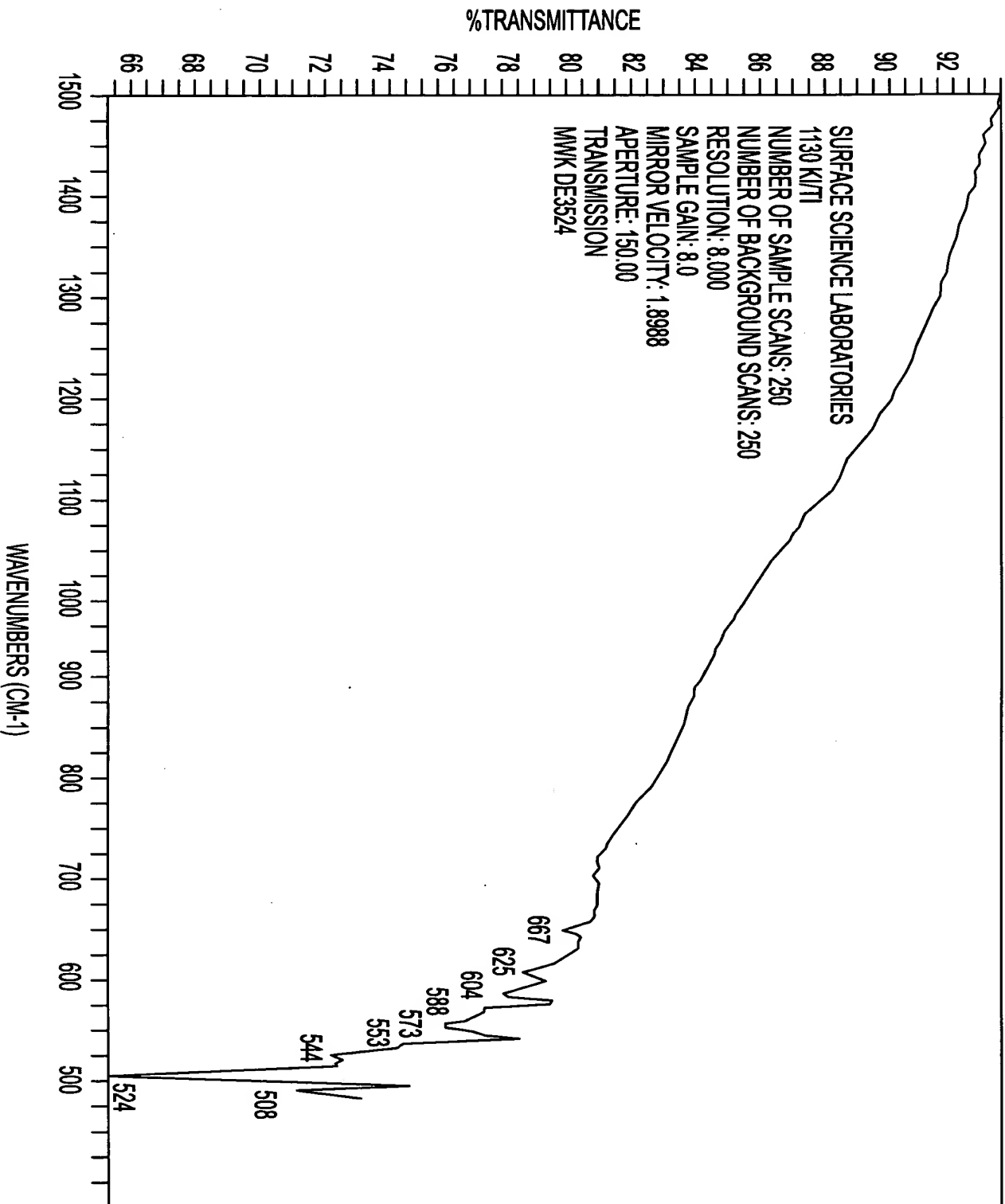


FIG. 117



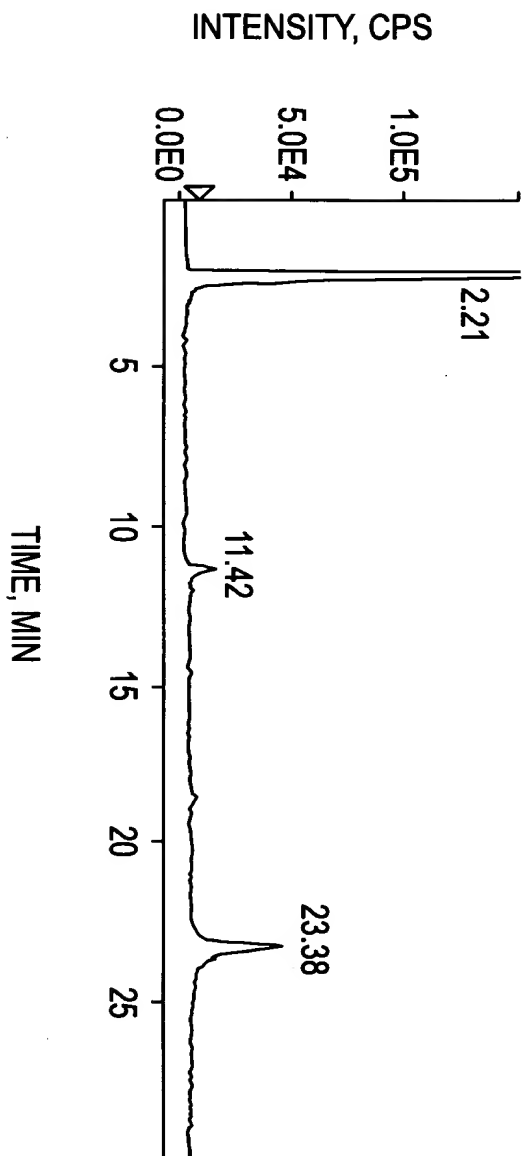


FIG. 118

APPROVED	BY	DRAFTSMAN
CLASS		FIG.
SUBCLASS		

APPROVED		DRAFTSMAN
BY		
O.G. FIG.		
CLASS	SUBCLASS	

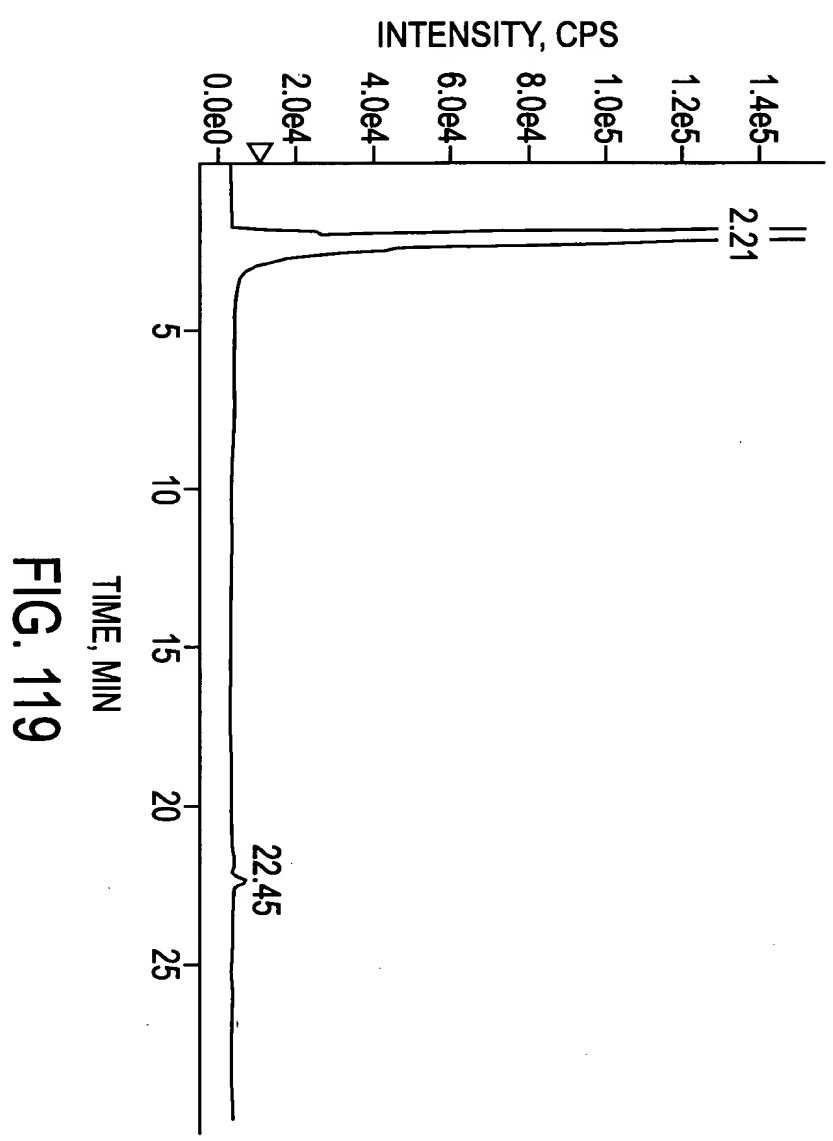


FIG. 119

0.0e0 2.0e4 4.0e4 6.0e4 8.0e4 1.0e5 1.2e5 1.4e5

5 10 15 20 25

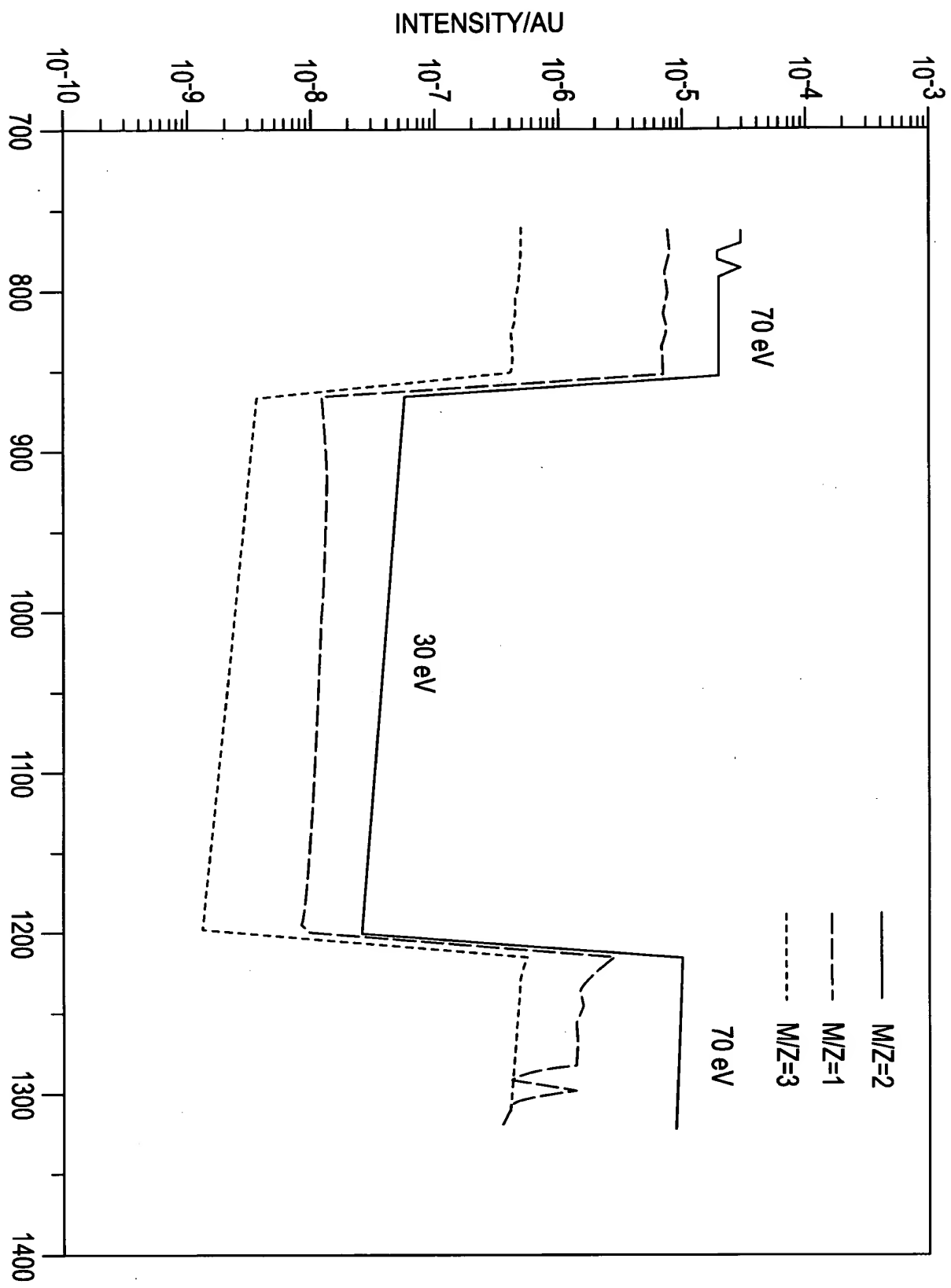


FIG. 121

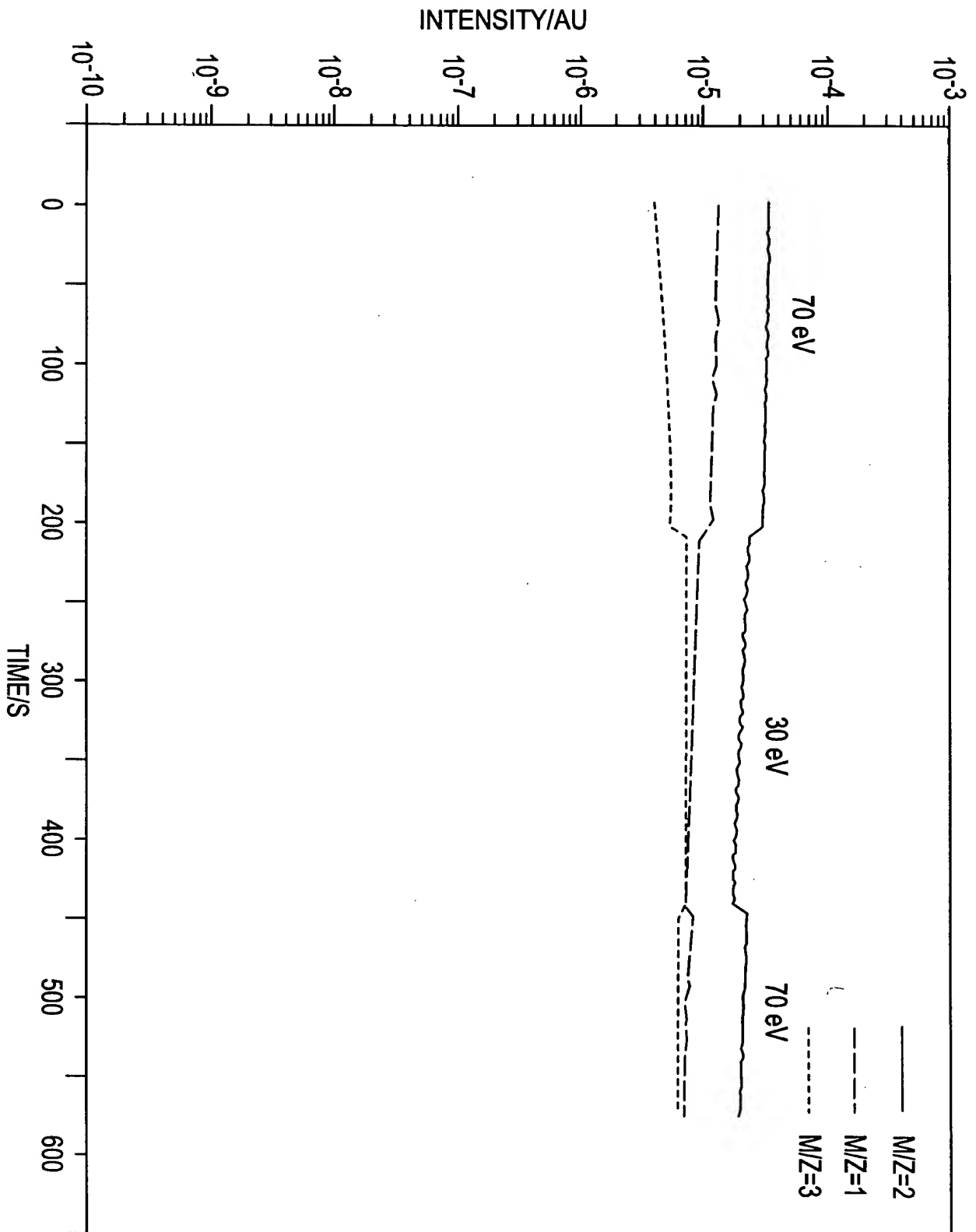


FIG. 122